

January 31, 2005

Mr. Larry Hoskins, Chief of Business Operations
Dayton Board of Education
4280 North James H. McGee Blvd.
Dayton, Ohio 45427

US EPA RECORDS CENTER REGION 5



1008081

Re: Well Sampling Data at Career Academy

Dear Mr. Hoskins:

Enclosed are the results of the ground water samples taken in 2003 and 2004 from the geothermal wells at the Dayton Career Academy and soil samples collected when monitoring wells MW-16-03 and MW-21-04 were installed in 2003 and 2004, respectively. The testing of these samples has included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), poly-chlorinated biphenyls (PCBs), and metals using laboratory analytical methods developed by the United States Environmental Protection Agency (U.S. EPA). The attached Tables 1 and 2 show the laboratory results for the chemicals that were detected in groundwater and soil, respectively, and the levels at which they were detected.

GROUNDWATER RESULTS – SCREENING LEVELS

As part of its review of these data, General Motors compared the groundwater results to the following screening levels developed to assess the potential significance of groundwater concentrations under different types of potential groundwater exposures.

- Drinking water screening levels based on maximum contaminant levels (MCLs) established under the Safe Drinking Water Act and generic risk-based equivalent drinking water levels (EDWLs) for constituents without MCLs. The EDWLs are generic risk-based drinking water limits calculated using conservative standard default exposure factors for estimating high-end exposures via daily drinking water consumption, and target cancer risk of 10^{-5} for carcinogenic constituents and hazard index (HI) of 1 for non-carcinogenic constituents;
- Risk-based screening levels derived to evaluate potential exposure to chemicals in groundwater during short-term site redevelopment/excavation activities;
- Risk-based screening levels derived to evaluate potential non-potable groundwater use activities (e.g., watering lawn, washing car, filling and swimming in backyard “kiddie” pool); and
- Risk-based screening levels calculated based on potential inhalation exposure to vapor migrating from groundwater into a commercial building. The indoor air concentrations resulting from the potential migration of vapor from groundwater into a building are estimated using a model recommended by USEPA.

The screening levels for each of the constituents detected in the wells are presented on Table 1. These conservative drinking water screening criteria are used even though GM has not identified anyone who is drinking groundwater in the area where the chemicals have been identified.

SAMPLING DATA FROM THE GEOTHERMAL WELLS

Note that the original geothermal well was replaced in 2004, and the August 24, 2004 sample was collected from the replacement geothermal well. Both wells draw water from the lower aquifer.

As indicated on Table 1, the only chemicals to exhibit concentrations greater than any of the screening values in the samples from the geothermal wells are trichloroethene and cis-1,2-dichloroethene, which exceed only the drinking water screening values. There were no concentrations greater than the short-term site redevelopment/excavation or groundwater volatilization to indoor air levels.

It is our understanding that water from the geothermal well is used in a closed loop heating/cooling system, and therefore, the conservative drinking water screening levels are not applicable to assessing potential exposures under current site conditions. In addition, based on our review of the geothermal heating system, there does not appear to be an opportunity for other types of exposure to constituents in groundwater pumped through this system. Detected concentrations do not exceed screening values for other potential exposure pathways (i.e., direct contact during excavation activities, or volatilization from groundwater to indoor air). Therefore, current use of the geothermal well at the Career Academy should not pose an unacceptable risk to building occupants or maintenance workers.

SAMPLING DATA FROM NEW MONITORING WELLS

Table 1 also reports the groundwater sampling results for monitoring wells MW-16R-04 and MW-21-04. Note that monitoring well MW-16R-04 replaced monitoring well MW-16-03, which is dry. Both of these monitoring wells are located in the upper aquifer.

As indicated on Table 1, the only chemicals to exhibit concentrations greater than the screening values in the samples from these wells are tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene, which exceed only the drinking water screening values. There were no concentrations greater than the short-term site redevelopment/excavation levels or groundwater volatilization to indoor air levels.

It is our understanding that shallow groundwater is not currently used by the Career Academy, and therefore, the conservative drinking water screening levels are not applicable to assessing potential exposures under current site conditions. Detected concentrations are not higher than screening values for other potential exposure pathways (i.e., direct contact during excavation activities, or volatilization from groundwater to indoor air). Therefore, the presence of tetrachloroethene, trichloroethene, and cis-1,2-dichloroethene in the upper aquifer in the vicinity of monitoring wells MW-16R-04 and MW-21-04 should not pose an unacceptable risk to building occupants, students, or workers at the Career Academy.

SOIL RESULTS

As part of its review of these data, General Motors compared the soil sampling results to the following screening levels developed to assess the potential significance of soil concentrations under different types of potential soil exposures.

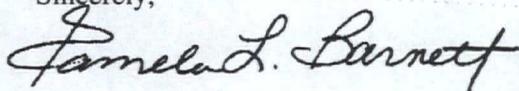
- Risk-based screening levels derived using conservative standard default exposure factors for estimating high-end ingestion, dermal contact and inhalation exposures of workers to soil in commercial settings, and a target cancer risk of 10^{-5} and a hazard index (HI) of 1 for non-carcinogenic constituents;
- Risk-based screening levels calculated based on potential migration of chemicals from soil to groundwater. The groundwater concentrations resulting from the potential leaching of chemicals from soil to groundwater are estimated using procedures recommended by USEPA; and
- Risk-based screening levels calculated based on potential inhalation exposure to vapor migrating from soil into a commercial building. The indoor air concentrations resulting from the potential migration of vapor from soil into a building are estimated using a model recommended by USEPA.

The screening levels for each of the constituents detected in the soil are presented on Table 2.

As indicated on Table 2, the only chemical to exceed any screening value is arsenic, in one sample from soil eight feet below the ground surface. Given that the other six soil samples had concentrations well below the conservative screening criteria, the presence of arsenic should not pose an unacceptable risk to building occupants, students, or workers at the Career Academy. This arsenic result is not associated with activities at the Former GM Harrison Facility.

Thank you for allowing General Motors to collect soil samples and to install and sample wells on your property. General Motors looks forward to continuing to discuss these results with you. Please call me at 937-455-2636, if you have any questions.

Sincerely,



Pamela L. Barnett, P.G.
Project Manager
BOW Environmental Solutions, Inc. on behalf of GM

Enclosure

c.c.: Jean Caufield, GM Remediation (1 copy)
Patricia Polston, USEPA (1 copy)

TABLE 1

**CHEMICALS DETECTED IN GROUNDWATER
THE DAYTON CAREER ACADEMY
DAYTON, OHIO**

Sample Location:
Sample ID:
Sample Matrix:
Sample Date:

GEOOTHERMAL_WELL	GEOOTHERMAL_WELL	MW-16R-04	MW-16R-04
WG-052703-CAH-153	WG-082404-CAH-182	WG-032404-CAB-163	WG-110404-AC-001
WG	WG	WG	WG
5/27/2003	8/24/2004	3/24/2004	11/4/2004

Parameters	Units	Drinking Water Screening Levels								
		a	b	c	Site-Specific Nonpotable Groundwater Use			Site-Specific Comm/Ind Groundwater		

Volatile Organic Compounds

Acetone	mg/L	3.70	91.623	7.833	-	-	-	0.0026	-	0.0076
Chloroform (Trichloromethane)	mg/L	0.080	2.20	38.0	-	-	-	0.0004	-	-
cis-1,2-Dichloroethene	mg/L	0.070	59.4	36.6	0.067	0.09*	0.021	0.0073	0.22*	0.2*
Dichlorodifluoromethane (CFC-12)	mg/L	7.30	212	543	-	0.017	0.0018	0.00062	-	-
Methylene chloride	mg/L	0.005	115	19.0	-	-	-	0.0029	-	0.0042
Tetrachloroethene	mg/L	0.005	14.3	0.899	-	-	0.036*	0.039*	0.018*	0.037*
trans-1,2-Dichloroethene	mg/L	0.100	92.8	58.5	-	0.0016 J	0.00046 J	-	-	0.001
Trichloroethene	mg/L	0.005	26.0	3.34	0.22*	0.32*	0.02*	0.031*	0.016*	0.029*

Metals

Arsenic	mg/L	0.050	-	0.058	0.0039 J	0.0064 J	-	-	-	-
Barium	mg/L	2	-	260	0.090 J	0.10 J	0.24	-	0.15 J	-
Cadmium	mg/L	0.005	-	3.71	-	-	-	-	0.00032 J	-
Copper	mg/L	1.30	-	148	0.0026 J	-	-	-	-	-
Manganese	mg/L	0.880	-	519	0.11	-	0.75	0.25	0.27	0.35
Nickel	mg/L	0.100	-	87.9	-	-	-	-	0.0025 J	-
Zinc	mg/L	11	-	1207	0.018 J	-	-	-	-	-

Field Parameters

Conductivity	mS/cm	-	-	-	-	1.5	1.34	1.63	1.53
Dissolved Oxygen, Field	mg/L	-	-	-	-	-	0	-	1.16
ORP, Field	millivolts	-	-	-	-	-	-45	-	78
OVA Reading	ppm	-	-	-	-	-	0	-	0
pH Field	s.u.	-	-	-	-	6.31	7.13	6.25	6.83
Temp Air	Deg F	-	-	-	-	-	53	-	40
Temperature (Sample)	Deg C	-	-	-	-	17.6	14.28	15.5	16.88
Turbidity	NTU	-	-	-	-	-2.9	97.2	14.4	13.5

Notes:

J - Estimated value.

TABLE 2

**CHEMICALS DETECTED IN SOIL
THE DAYTON CAREER ACADEMY
DAYTON, OHIO**

Sample Location:				MW-16-03	MW-16-03	MW-16-03	MW-21-04	MW-21-04	MW-21-04	MW-21-04
Sample ID:				S-12638-050103-GL-348	S-12638-050103-GL-349	S-12638-050103-GL-350	S-12638-020904-NZ-601	S-12638-020904-NZ-602	S-12638-020904-NZ-603	S-12638-020904-NZ-604
Sample Matrix:				SO	SO	SO	SO	SO	SO	SO
Sample Date:				5/1/2003	5/1/2003	5/1/2003	2/9/2004	2/9/2004	2/9/2004	2/9/2004
Sample Depth:				0-2 ft BGS	8-10 ft BGS	10-12 ft BGS	0-2 ft BGS	8-10 ft BGS	24.8-26.8 ft BGS	16-17 ft BGS
Parameters	Units	Comm/Ind Routine Worker Soil Screening	Soil Migration to Groundwater Screening	Site-Specific Comm/Ind Soil Volatilization to Indoor Air Screening	a	b	c			
Volatile Organic Compounds										
2-Butanone (Methyl Ethyl Ketone)	ug/kg	27,000	-	3,672	-	-	-	-	0.0014 J	0.002 J
Acetone	ug/Kg	6,000	16	2,687	-	0.21 J	0.04 J	-	-	-
Benzene	ug/Kg	13	0.030	0.233	-	0.024 J	-	-	-	0.00053 J
Cyclohexane	ug/kg	32,000	-	125	-	-	-	-	-	0.00092 J
Ethylbenzene	ug/kg	7,400	13	251	-	0.048 J	-	-	-	0.00072 J
Methyl acetate	ug/Kg	92,000	-	-	-	0.19 J	-	-	-	-
Methyl cyclohexane	ug/kg	8,700	-	-	-	0.1 J	-	-	-	0.0017 J
Methylene chloride	ug/kg	210	0.020	2.70	-	-	-	0.0019 J	0.0025 J	0.0026 J
Tetrachloroethene	ug/kg	34	0.060	0.456	-	-	-	-	0.00057 J	0.00081 J
Toluene	ug/Kg	2,200	12	61.2	0.00057 J	0.15 J	-	-	-	0.00044 J
Trichloroethene	ug/kg	61.2	0.060	1.51	-	-	-	-	-	0.00083 J
Xylene (total)	ug/kg	900	210	31.2	-	0.78 J	-	-	-	0.0013 J
Metals										
Antimony	mg/Kg	410	5	-	0.74 J	1.5 J	1.6 J	-	-	-
Arsenic	mg/Kg	16	29	-	8.4	18.2*	12.2	4.8	3.1	3.9
Barium	mg/Kg	67,000	1,600	-	78.6 J	137 J	169 J	55.5	35.4	34.4
Beryllium	mg/Kg	1,900	63	-	0.35 J	5.1	4.0	0.38 J	-	0.18 J
Cadmium	mg/Kg	450	8	-	0.69	0.18 J	0.56 J	0.27 J	0.093 J	0.10 J
Chromium Total	mg/Kg	2,500	38	-	9.2 J	11.4 J	5.2 J	5.9 J	4.2 J	5.5 J
Cobalt	mg/Kg	13,000	-	-	4.5 J	7.0 J	4.6 J	2.4 J	1.8 J	1.7 J
Copper	mg/Kg	41,000	-	-	75.8	241	130	33.6 J	4.1 J	4.0 J
Cyanide (total)	mg/Kg	12,000	-	-	-	-	0.26 J	-	0.32 J	-
Lead	mg/Kg	750	-	-	198	646	86.1	93.3	3.5	4.2
Manganese	mg/Kg	19,000	-	-	445 J	109 J	94.5 J	204	325	198
Mercury	mg/Kg	13.6	-	38.2	0.16	0.24	0.73	0.14	0.060 J	0.13
Nickel	mg/Kg	20,000	130	-	12.8	16.7	11.1	6.6	4.6	4.1 J
Selenium	mg/Kg	5,100	5	-	-	1.4	1.0	-	-	-
Silver	mg/Kg	5,100	34	-	-	-	0.42 J	0.10 J	-	-
Thallium	mg/Kg	68	-	-	1.8	1.2 J	-	-	-	-
Vanadium	mg/Kg	7,200	6,000	-	16.9	44.7	28.1	8.2	5.5	7.1
Zinc	mg/Kg	310,000	12,000	-	179	88.3	574	71.8	14.7	15.6
General Chemistry										
Total Solids	%	-	-	-	73.2	65.4	61.5	93.5	96.0	95.1
										93.7

Notes:

J - Estimated value.

January 15, 2004

Mr. Alan Pippenger
The F. A. Requarth Company
PO Box 38
Dayton, Ohio
45401-0038

Re: Well Sampling Data – The F. A. Requarth Company

Dear Mr. Pippenger:

Enclosed are the results of the water samples taken to date from the monitoring wells on the F. A. Requarth Company property (see Figure 1). These wells draw water from the upper aquifer, with the exception of HD-5, which formerly drew water from the lower aquifer (this well was abandoned by GM in 2000). The testing of these wells has included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), poly-chlorinated biphenyls (PCBs), and metals using laboratory analytical methods developed by the United States Environmental Protection Agency (U.S. EPA). The attached Table 1 shows the laboratory results for the chemicals that were detected and the concentrations at which they were detected.

As part of its review of these data, General Motors Corporation (GM) compared the results to the following screening criteria developed to assess the potential significance of groundwater concentrations under different types of potential groundwater exposures.

- Drinking water screening criteria represented by Federal and Ohio Maximum Contaminant Levels (MCLs) for drinking water, or in the absence of an MCL, equivalent drinking water levels calculated following methodology developed by USEPA;
- Risk-based criteria derived to evaluate potential exposure to chemicals in groundwater during short-term excavation activities; and
- Risk-based screening levels calculated based on potential inhalation exposure to vapor migrating from groundwater into a commercial building. The indoor air concentrations resulting from the potential migration of vapor from groundwater into a building are estimated using a model recommended by USEPA for screening evaluations.

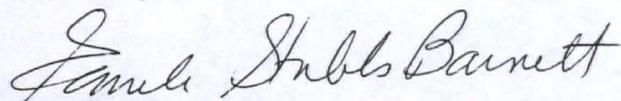
The screening criteria for each of the constituents detected in the monitoring wells on the F. A. Requarth Company property are presented on Table 1.

As indicated on Table 1, the only screening values that are exceeded are the drinking water screening values. It is our understanding that water from the F. A. Requarth Company property is not currently being used, and therefore, the drinking water screening criteria are not applicable to assessing potential exposures under current site conditions. Detected concentrations do not exceed screening values for other potential exposure pathways (i.e., direct contact during excavation activities, or volatilization from groundwater to indoor air). Therefore, based on a review of current groundwater use at the F. A. Requarth Company property, current groundwater conditions would not pose an unacceptable risk to potential receptors.

January 15, 2004
Page 2

Thank you for allowing GM to install and sample wells on the F. A. Requarth Company property. Please call 937-455-2636, if you have any questions.

Sincerely,



Pamela Stubbs Barnett, P.G.
Project Manager
BOW Environmental Solutions, Inc. on behalf of GM

Enclosure

Cc: Jean Caufield, GM
Patricia Polston, USEPA

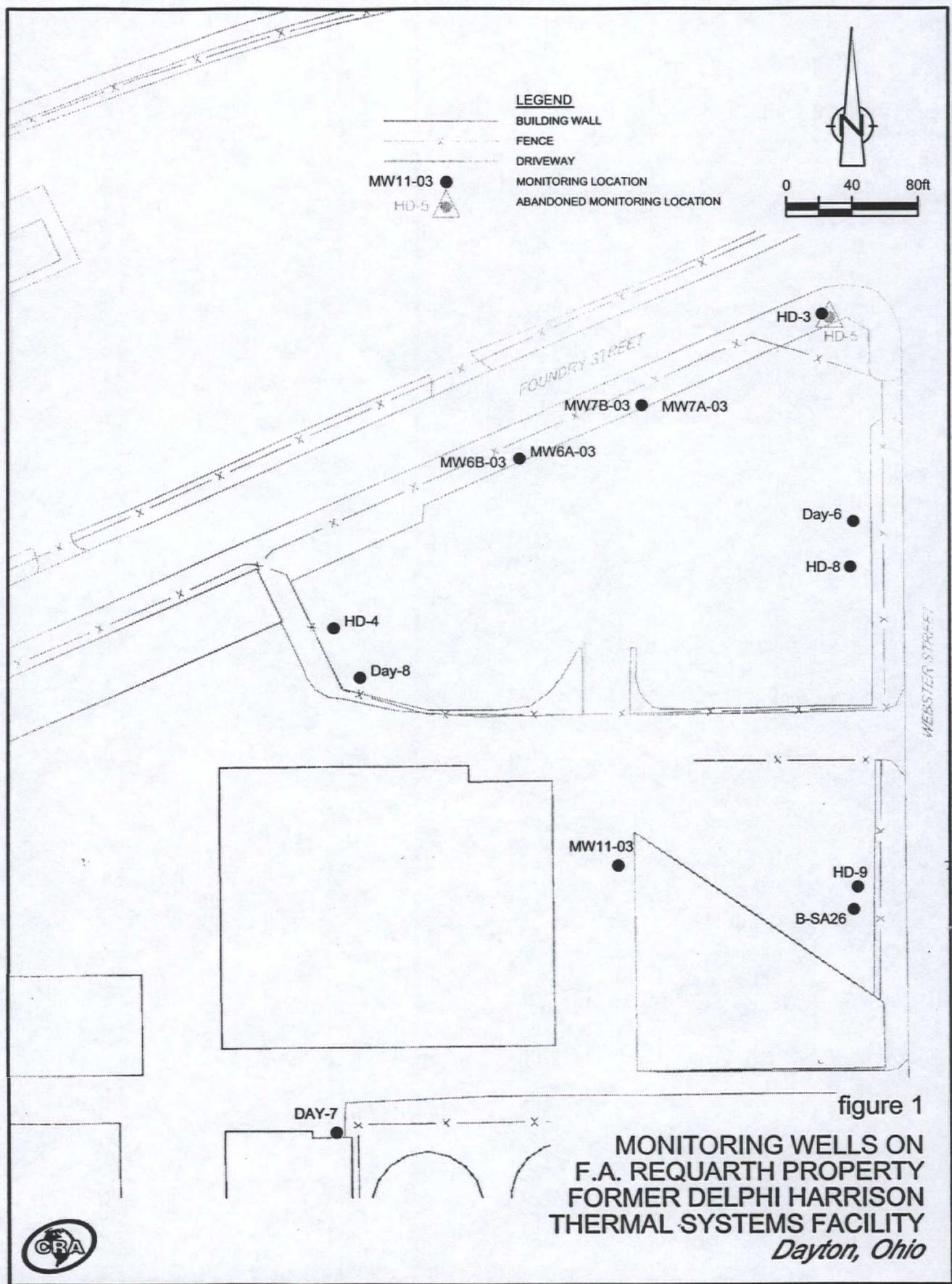


Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	B-SA26	B-SA26	B-SA26	B-SA26	B-SA26	B-SA26	B-SA26	B-SA26	B-SA26	DAY-06	DAY-06	DAY-06	DAY-06
Sample ID:	B-SA26	B-SA26-City	B-SA26-City	B-SA26 05/12/00	W-060200-JC-006	B-SA26 6/15/2000	B-SA26-City	GCAH-070202-B26	WG-041403-GJL-131	DAY-6	DAY-6	DAY-6	DAY-6
Sample Date:	6/14/1996	5/11/2000	5/11/2000	5/12/2000	6/2/2000	6/15/2000	6/15/2000	7/2/2002	4/14/2003	12/8/2000	12/8/2000	12/8/2000	12/8/2000
Sample Depth:										20-25 ft BGS	30-35 ft BGS	40-45 ft BGS	45-50 ft BGS

Duplicate

Parameters		Units														
Lead	mg/L	0.015	-	-	-	0.12^a	ND (0.015)	0.183^a	-	0.0925^a	0.067^a	ND (0.0030)	ND (0.0030)	-	-	0.054^a
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.88	97700	-	-	-	-	1.3^a	-	-	-	0.20	0.23	-	-	-
Manganese (Dissolved)	mg/L	0.88	97700	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	0.002	0.529	1.12	-	ND (0.0005)	ND (0.0005)	0.002	-	0.0005	ND (0.0005)	ND (0.00020)	ND (0.00020)	-	-	ND (0.0005)
Nickel	mg/L	0.1	14000	-	-	-	-	-	-	-	-	0.0047 J	0.0030 J	-	-	-
Nickel (Dissolved)	mg/L	0.1	14000	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	0.002	48.9	-	-	-	-	-	-	-	-	ND (0.0010)	ND (0.0010)	-	-	-
Thallium (Dissolved)	mg/L	0.002	48.9	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.26	4890	-	-	-	-	-	-	-	-	ND (0.050)	0.00093 J	-	-	-
Zinc	mg/L	11	209000	-	-	-	-	-	-	-	-	ND (0.020)	0.017 J	-	-	-
Zinc (Dissolved)	mg/L	11	209000	-	-	-	-	-	-	-	-	-	-	-	-	-
Gas																
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products																
Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																
Alkalinity, Total (As CaCO ₃)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardness	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Industrial Drinking Water Criteria (MCL/PRG with CRL of E-5)

b Groundwater Direct Contact Criteria

c Site Specific Groundwater Volatilization to Indoor Air Criteria

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Groundwater Samples from F.A. Requarth Company Property
Dayton Ohio

Table 1
Groundwater Samples from F. A. Requaugh Company Property
Dayton Ohio

Sample Location:	DAY-08	DAY-08	DAY-08	DAY-08	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	
Sample ID:	DAY-8	DAY-8	GTLF-071502-D8	WG-031803-GJL-051	HD-3	HD-3	HD-3 6/10/99	HD-3 5/11/00	HD-3-City	W-060200-JC-013	HD-3 6/15/2000	HD-3-City	HD-3	HD-3	GTMV-062602-H3	
Sample Date:	11/30/2000	12/20/2000	7/15/2002	3/18/2003	5/18/1988	6/14/1996	6/10/1999	5/11/2000	5/11/2000	6/2/2000	6/15/2000	6/15/2000	6/26/2002			
Sample Depth:	48-ft BGS															
Parameters	Units	a	b	c												
Volatiles																
1,1,1-Trichloroethane	mg/L	0.2	1320	3380	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.003)	0.0017	ND (0.016)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	
1,1-Dichloroethane	mg/L	3.7	446	1320	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.003)	ND (0.0005)	ND (0.016)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0014)	
1,1-Dichloroethene	mg/L	0.007	157	196	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.003)	ND (0.0005)	ND (0.016)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0014)	
Carbon disulfide	mg/L	3.7	340	553	ND (0.05)	ND (0.05)	ND (0.0025)	ND (0.003)	-	ND (0.016)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	
Chloroform (Trichloromethane)	mg/L	0.08	4.19	2.2	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.003)	-	ND (0.016)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0014)	
cis-1,2-Dichloroethene	mg/L	0.07	103	-	0.006	0.015	0.0064	0.0085	0.0138	0.56 *	0.0022	ND (0.005)	ND (0.005)	0.0014 U	ND (0.005)	
Cyclohexane	mg/L	210	22700	-	-	-	ND (0.0025)	ND (0.003)	-	-	-	-	-	-	ND (0.0014)	
Dichlorodifluoromethane (CFC-12)	mg/L	7.3	245	21.7	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.003)	-	-	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0014)	
Methyl cyclohexane	mg/L	31	-	-	-	-	ND (0.0025)	ND (0.003)	-	-	-	-	-	-	ND (0.0014)	
Methylene chloride	mg/L	0.005	108	100	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.003)	-	ND (0.016)	ND (0.01)	ND (0.005)	ND (0.005)	0.0017 U	ND (0.005)	
Tetrachloroethene	mg/L	0.005	3.83	18.6	0.068 *	0.11 *	0.058 *	0.076 *	0.135 *	0.37 *	0.0628 *	0.0245 *	0.028 *	0.04 *	0.0443 *	
Toluene	mg/L	1	281	1030	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.003)	-	ND (0.016)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0014)	
trans-1,2-Dichloroethene	mg/L	0.1	145	-	ND (0.005)	ND (0.005)	ND (0.0012)	ND (0.0017)	ND (0.0005)	ND (0.016)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0072)	
Trichloroethene	mg/L	0.005	28.6	30.7	0.028 *	0.073 *	0.043 *	0.053 *	0.0638 *	0.04 *	0.0344 *	0.0192 *	0.017 *	0.028 *	0.0373 *	
Vinyl chloride	mg/L	0.002	0.835	4.32	ND (0.002)	ND (0.005)	ND (0.0025)	ND (0.003)	-	0.089 *	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.01)	ND (0.002)	
Xylene (total)	mg/L	10	130	342	-	-	ND (0.0025)	ND (0.003)	-	ND (0.016)	ND (0.002)	ND (0.005)	-	ND (0.005)	ND (0.0014)	
Volatiles - BTEX																
Toluene	mg/L	1	281	1030	-	-	-	-	-	ND (0.0005)	-	-	-	-	-	
PAH																
Benzo(a)anthracene	mg/L	0.00092	0.0214	-	-	-	-	-	-	ND (0.0001)	-	-	-	-	-	
Chrysene	mg/L	0.092	2.14	-	-	-	-	-	-	ND (0.0001)	-	-	-	-	-	
Fluoranthene	mg/L	1.5	19	-	-	-	-	-	-	ND (0.00025)	-	-	-	-	-	
Semi - Volatiles																
4-Methylphenol	mg/L	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-	-	-	-	ND (0.01)	
Benz(a)anthracene	mg/L	0.00092	0.0214	-	-	-	ND (0.01)	ND (0.01)	-	-	-	-	-	-	ND (0.01)	
Caprolactam	mg/L	18	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-	-	-	-	ND (0.01)	
Chrysene	mg/L	0.092	2.14	-	-	-	ND (0.01)	ND (0.01)	-	-	ND (0.01)	ND (0.01)	-	-	ND (0.01)	
Fluoranthene	mg/L	1.5	19	-	-	-	ND (0.01)	ND (0.01)	-	-	ND (0.01)	ND (0.01)	-	-	ND (0.01)	
Metals																
Arsenic	mg/L	0.05	32.6	-	-	0.096 *	0.0037 J	0.0042 J	-	-	ND (0.005)	ND (0.03)	-	ND (0.005)	ND (0.03)	ND (0.010)
Arsenic (Dissolved)	mg/L	0.05	32.6	-	-	-	-	-	-	-	-	-	-	-	ND (0.010)	
Barium	mg/L	2	48900	-	-	0.44	0.17 J	0.17 J	-	-	0.317	0.35	-	0.257	0.29	0.23
Barium (Dissolved)	mg/L	2	48900	-	-	-	-	-	-	-	-	-	-	-	0.22	
Cadmium	mg/L	0.005	349	-	-	ND (0.005)	ND (0.0050)	ND (0.0050)	-	-	0.0028	ND (0.005)	-	0.0015	ND (0.005)	ND (0.0050)
Cadmium (Dissolved)	mg/L	0.005	349	-	-	-	-	-	-	-	-	-	-	-	ND (0.0050)	
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	84.8	
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	83.2	
Chromium Total	mg/L	0.1	-	-	0.037	ND (0.010)	0.0035 J	-	-	ND (0.002)	ND (0.005)	-	ND (0.002)	ND (0.01)	ND (0.010)	
Cobalt	mg/L	0.73	14000	-	-	ND (0.050)	ND (0.050)	U	-	-	-	-	-	-	ND (0.050) U	
Cobalt (Dissolved)	mg/L	0.73	14000	-	-	-	-	-	-	-	-	-	-	-	ND (0.050) U	
Copper	mg/L	1.3	27900	-	-	ND (0.025)	ND (0.025)	-	-	-	-	-	-	-	ND (0.025)	
Copper (Dissolved)	mg/L	1.3	27900	-	-	-	-	-	-	-	-	-	-	-	ND (0.025)	
Cyanide (total)	mg/L	0.2	14000	-	-	ND (0.010)	ND (0.010)	-	-	-	-	-	-	-	ND (0.010)	
Iron	mg/L	11	209000	-	-	-	-	-	-	-	-	0.24	-	-	0.052 J	

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	DAY-08	DAY-08	DAY-08	DAY-08	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3
Sample ID:	DAY-8	DAY-8	GTLF-071502-D8	WG-031a03-GJL-051	HD-3	HD-3	HD-3	HD-3	HD-3	W-060200-JC-013	HD-3 6/15/2000	HD-3-City	HD-3	GTMV-062602-H3
Sample Date:	11/30/2000	12/20/2000	7/15/2002	3/18/2003	5/18/1988	6/14/1996	6/10/1999	5/11/2000	5/11/2000	6/2/2000	6/15/2000	6/15/2000	6/15/2000	6/26/2002
Sample Depth:	48-ft BGS													

Parameters	Units														
Lead	mg/L	0.015	-	-	0.063 ^a	ND (0.0030)	ND (0.0030)	-	-	0.0022	ND (0.015)	-	0.0023	ND (0.015)	ND (0.0030)
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	33.0
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	32.4
Manganese	mg/L	0.88	97700	-	-	0.34	0.30	-	-	-	-	1.4 ^b	-	-	0.47
Manganese (Dissolved)	mg/L	0.88	97700	-	-	-	-	-	-	-	-	-	-	-	0.28
Mercury	mg/L	0.002	0.529	1.12	-	ND (0.0005)	ND (0.00020)	ND (0.00020)	-	-	ND (0.0002)	ND (0.0005)	-	ND (0.0002)	ND (0.00020)
Nickel	mg/L	0.1	14000	-	-	ND (0.040)	ND (0.040)	0.0051 J	-	-	-	-	-	-	ND (0.040)
Nickel (Dissolved)	mg/L	0.1	14000	-	-	-	-	-	-	-	-	-	-	-	0.0052 J
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4 J
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3 J
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	71.9
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	71.0
Thallium	mg/L	0.002	48.9	-	-	ND (0.0010)	ND (0.0010)	-	-	-	-	-	-	-	ND (0.0010)
Thallium (Dissolved)	mg/L	0.002	48.9	-	-	-	-	-	-	-	-	-	-	-	ND (0.0010)
Vanadium	mg/L	0.26	4890	-	-	0.0013 J	0.00088 J	-	-	-	-	-	-	-	ND (0.050)
Zinc	mg/L	11	209000	-	-	ND (0.020)	ND (0.020)	U	-	-	-	-	-	-	ND (0.020)
Zinc (Dissolved)	mg/L	11	209000	-	-	-	-	-	-	-	-	-	-	-	ND (0.020)
Gas															
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.0005)
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.0005)
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.0005)
Petroleum Products															
Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	
General Chemistry															
Alkalinity, Total (As CaCO ₃)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	290
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	132
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7 J
Hardness	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	348
Nitrate (as N)	mg/L	10	-	-	-	-	-	-	-	-	-	-	-	-	1.5
Nitrite (as N)	mg/L	1	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.10)
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	73.0
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	427	-	-	-	-	-

Notes:

- U Non-detect at associated value.
- J Estimated.
- UJ Non-detect at associated value. The associated value is estimated.
- a Industrial Drinking Water Criteria (MCL/PRG with CRL of E-5)
- b Groundwater Direct Contact Criteria
- c Site Specific Groundwater Volatilization to Indoor Air Criteria

Table 1
Groundwater Samples from F. A. Requaugh Company Property
Dayton Ohio

Sample Location:	HD-3	HD-3	HD-3	HD-3	HD-3	HD-4	HD-4	HD-4	HD-4	HD-4
Sample ID:	WG-032403-GJL-073	WG-12638-050103-NZ-346	WG-12638-051603-NZ-356	WG-12638-060503-JC-357	WG-12638-081303-LB-367	HD-4	HD-4 6/10/99	HD-4 City	HD-4 05/12/00	W-060200-JC-008
Sample Date:	3/24/2003	5/1/2003	5/16/2003	6/5/2003	8/13/2003	5/18/1988	6/10/1999	5/11/2000	5/12/2000	6/2/2000
Sample Depth:										
Parameters										
Volatiles										
	a	b	c							
1,1,1-Trichloroethane	mg/L	0.2	1320	3380	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	0.002
1,1-Dichloroethane	mg/L	3.7	446	1320	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	0.0015
1,1-Dichloroethene	mg/L	0.007	157	196	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	ND (0.005)
Carbon disulfide	mg/L	3.7	340	553	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	-
Chloroform (Trichloromethane)	mg/L	0.08	4.19	2.2	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	0.0049
cis-1,2-Dichloroethene	mg/L	0.07	103	-	0.02	0.015	0.064	0.13*	0.053	ND (0.005)
Cyclohexane	mg/L	210	22700	-	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	ND (0.005)
Dichlorodifluoromethane (CFC-12)	mg/L	7.3	245	21.7	ND (0.0017)	ND (0.0014) U	ND (0.0025)	ND (0.005)	ND (0.0025)	ND (0.005)
Methyl cyclohexane	mg/L	31	-	-	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	-
Methylene chloride	mg/L	0.005	108	100	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	ND (0.005)
Tetrachloroethene	mg/L	0.005	3.83	18.6	0.016*	0.033*	0.03*	0.023*	0.01*	0.142*
Toluene	mg/L	1	281	1030	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	ND (0.005)
trans-1,2-Dichloroethene	mg/L	0.1	145	-	ND (0.00084)	ND (0.00072)	ND (0.0012)	0.0016 J	ND (0.0012)	ND (0.0005)
Trichloroethene	mg/L	0.005	28.6	30.7	0.037*	0.036*	0.028*	0.018*	0.0073*	0.0466*
Vinyl chloride	mg/L	0.002	0.835	4.32	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	0.0471*
Xylene (total)	mg/L	10	130	342	ND (0.0017)	ND (0.0014)	ND (0.0025)	ND (0.005)	ND (0.0025)	0.033*
										0.0358*
										0.032*
Volatiles - BTEX										
Toluene	mg/L	1	281	1030	-	-	-	-	-	-
PAH										
Benzo(a)anthracene	mg/L	0.00092	0.0214	-	-	-	-	-	-	-
Chrysene	mg/L	0.092	2.14	-	-	-	-	-	-	-
Fluoranthene	mg/L	1.5	19	-	-	-	-	-	-	-
Semi - Volatiles										
4-Methylphenol	mg/L	-	-	-	ND (0.01)	-	-	-	-	-
Benz(a)anthracene	mg/L	0.00092	0.0214	-	ND (0.01)	-	-	-	-	ND (0.01)
Caprolactam	mg/L	18	-	-	ND (0.01)	-	-	-	-	-
Chrysene	mg/L	0.092	2.14	-	ND (0.01)	-	-	-	-	ND (0.01)
Fluoranthene	mg/L	1.5	19	-	ND (0.01)	-	-	-	-	ND (0.01)
Metals										
Arsenic	mg/L	0.05	32.6	-	0.014	-	-	-	-	ND (0.03)
Arsenic (Dissolved)	mg/L	0.05	32.6	-	0.011	-	-	-	-	ND (0.005)
Barium	mg/L	2	48900	-	0.23	-	-	-	-	0.16
Barium (Dissolved)	mg/L	2	48900	-	0.23	-	-	-	-	0.146
Cadmium	mg/L	0.005	349	-	0.00034 J	-	-	-	-	ND (0.005)
Cadmium (Dissolved)	mg/L	0.005	349	-	ND (0.0050)	-	-	-	-	0.0014
Calcium	mg/L	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	64.9	-	-
Chromium Total	mg/L	0.1	-	-	ND (0.010) U	-	-	-	-	ND (0.005)
Cobalt	mg/L	0.73	14000	-	0.0043 J	-	-	-	-	ND (0.002)
Cobalt (Dissolved)	mg/L	0.73	14000	-	0.0038 J	-	-	-	-	-
Copper	mg/L	1.3	27900	-	ND (0.025) U	-	-	-	-	-
Copper (Dissolved)	mg/L	1.3	27900	-	ND (0.025) U	-	-	-	-	-
Cyanide (total)	mg/L	0.2	14000	-	ND (0.010)	-	-	-	-	-
Iron	mg/L	11	209000	-	-	-	-	1.7	-	0.29

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	HD-3	HD-3	HD-3	HD-3	HD-3	HD-3	HD-4	HD-4	HD-4	HD-4	HD-4
Sample ID:	WG-032403-GJL-073	WG-12638-050103-NZ-346	WG-12638-051603-NZ-356	WG-12638-060503-JC-357	WG-12638-081303-LB-367	HD-4	HD-4 6/10/99	HD-4-City	HD-4 05/12/00	W-060200-JC-008	
Sample Date:	3/24/2003	5/1/2003	5/16/2003	6/5/2003	8/13/2003	HD-4	6/10/1999	5/11/2000	5/12/2000	6/2/2000	
Sample Depth:											
Parameters											
Lead	mg/L	0.015	-	-	ND (0.0030)	-	-	-	-	ND (0.015)	0.0012
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.88	97700	-	0.50	-	-	-	-	0.42	-
Manganese (Dissolved)	mg/L	0.88	97700	-	0.45	-	-	-	-	-	0.65
Mercury	mg/L	0.002	0.529	1.12	0.00020	-	-	-	-	ND (0.0005)	ND (0.0002)
Nickel	mg/L	0.1	14000	-	0.0036 J	-	-	-	-	-	-
Nickel (Dissolved)	mg/L	0.1	14000	-	0.0031 J	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	-	-	-	2.7 J	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	-	-	-	55.3	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	0.002	48.9	-	ND (0.0010)	-	-	-	-	-	-
Thallium (Dissolved)	mg/L	0.002	48.9	-	ND (0.0010)	-	-	-	-	-	-
Vanadium	mg/L	0.26	4890	-	ND (0.050)	-	-	-	-	-	-
Zinc	mg/L	11	209000	-	ND (0.020)	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	11	209000	-	ND (0.020)	-	-	-	-	-	-
Gas											
Ethane	mg/L	-	-	-	ND (0.0005)	-	-	-	-	ND (0.0005)	-
Ethene	mg/L	-	-	-	ND (0.0005)	-	-	-	-	ND (0.0005)	-
Methane	mg/L	-	-	-	ND (0.0005)	-	-	-	-	ND (0.0005)	-
Petroleum Products											
Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, Total (As CaCO ₃)	mg/L	-	-	-	300	-	-	-	-	230	-
Chloride	mg/L	-	-	-	110	-	-	-	-	83.5 J	-
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	7	-	-	-	-	1	-
Hardness	mg/L	-	-	-	-	-	-	-	-	271	-
Nitrate (as N)	mg/L	10	-	-	0.080 J	-	-	-	-	ND (0.10) U	-
Nitrite (as N)	mg/L	1	-	-	ND (0.10)	-	-	-	-	ND (0.10)	-
Sulfate	mg/L	-	-	-	47.4	-	-	-	-	67.6	-
Sulfide	mg/L	-	-	-	0.35 J	-	-	-	-	ND (1.0) U	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	558

Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Industrial Drinking Water Criteria (MCL/PRG with CRL of E-5)

b Groundwater Direct Contact Criteria

c Site Specific Groundwater Volatilization to Indoor Air Criteria

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	HD-4	HD-4	HD-4	HD-4	HD-5	HD-5	HD-5	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	
Sample ID:	HD-4 6/15/2000	HD-4-City 6/15/2000	GTLF-071002-H4 7/10/2002	WG-032403-GJL-074 3/24/2003	HD-5 11/19/98 11/19/1998	HD-5 12/10/1998	HD-8 6/10/1999 3/19/1999	HD-8 6/10/1999 3/19/1999	HD-8 6/10/1999 3/19/1999	HD-8-City 5/12/2000	W-060200-JC-009 5/12/2000	W-060200-JC-010 6/2/2000	W-060200-JC-010 6/2/2000	HD-8-City 6/14/2000	Duplicate	
Sample Date:																
Sample Depth:																
Parameters	Units	a	b	c												
Volatiles																
1,1,1-Trichloroethane	mg/L	0.2	1320	3380	ND (0.005)	ND (0.005)	ND (0.0014)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	0.004 J	ND (0.005)
1,1-Dichloroethane	mg/L	3.7	446	1320	ND (0.005)	ND (0.005)	ND (0.0014)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
1,1-Dichloroethene	mg/L	0.007	157	196	ND (0.005)	ND (0.005)	ND (0.0014)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Carbon disulfide	mg/L	3.7	340	553	ND (0.005)	ND (0.05)	ND (0.0014)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Chloroform (Trichloromethane)	mg/L	0.08	4.19	2.2	ND (0.005)	ND (0.005)	ND (0.0014)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	0.0036	0.0021	ND (0.005)	ND (0.005)
cis-1,2-Dichloroethene	mg/L	0.07	103	-	0.052	0.04	0.017	0.012	ND (0.002)	ND (0.002)	0.0022	0.0023	0.0047	0.0066	ND (0.005)	0.0094
Cyclohexane	mg/L	210	22700	-	-	-	ND (0.0014)	ND (0.002)	-	-	-	-	-	-	0.0097	0.006
Dichlorodifluoromethane (CFC-12)	mg/L	7.3	245	21.7	ND (0.005)	ND (0.005)	ND (0.0014)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	-	ND (0.005)
Methyl cyclohexane	mg/L	31	-	-	-	-	ND (0.0014)	ND (0.002)	-	-	-	-	-	-	-	-
Methylene chloride	mg/L	0.005	108	100	ND (0.005)	ND (0.005)	0.00075 J	ND (0.002)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)
Tetrachloroethene	mg/L	0.005	3.83	18.6	0.0755 *	0.083 *	0.044 *	0.054 *	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	0.0985 *	0.0865 *	0.0665 *	0.078 *
Toluene	mg/L	1	281	1030	ND (0.005)	ND (0.005)	ND (0.0014)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	0.0013 U	ND (0.005)
trans-1,2-Dichloroethene	mg/L	0.1	145	-	ND (0.005)	ND (0.005)	0.00084	ND (0.001)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.005)
Trichloroethene	mg/L	0.005	28.6	30.7	0.0434 *	0.037 *	0.026 *	0.036 *	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	0.0464 *	0.0473 *	0.0512 *	0.047 *
Vinyl chloride	mg/L	0.002	0.835	4.32	ND (0.002)	ND (0.002)	0.00095 J	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.01)	ND (0.01)
Xylene (total)	mg/L	10	130	342	ND (0.005)	-	ND (0.0014)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.005)	-	0.0014 U	ND (0.005)
Volatiles - BTEX																
Toluene	mg/L	1	281	1030	-	-	-	-	-	-	-	-	-	-	-	-
PAH																
Benzo(a)anthracene	mg/L	0.00092	0.0214	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	mg/L	0.092	2.14	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	1.5	19	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi - Volatiles																
4-Methylphenol	mg/L	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-	-	-	-	-	-
Benz(a)anthracene	mg/L	0.00092	0.0214	-	-	-	ND (0.01)	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-
Caprolactam	mg/L	18	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-	-	-	-	-	-
Chrysene	mg/L	0.092	2.14	-	-	-	ND (0.01)	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-
Fluoranthene	mg/L	1.5	19	-	-	-	ND (0.01)	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-
Metals																
Arsenic	mg/L	0.05	32.6	-	ND (0.005)	ND (0.03)	0.0040 J	0.0049 J	-	-	-	-	ND (0.005)	ND (0.03)	-	ND (0.03)
Arsenic (Dissolved)	mg/L	0.05	32.6	-	-	-	0.0057 J	0.0036 J	-	-	-	-	0.137	0.15	-	0.13
Barium	mg/L	2	48900	-	0.163	0.2	0.15 J	0.17 J	-	-	-	-	-	-	-	-
Barium (Dissolved)	mg/L	2	48900	-	-	-	0.12 J	0.17 J	-	-	-	-	-	-	-	-
Cadmium	mg/L	0.005	349	-	ND (0.001)	ND (0.005)	0.00049 J	ND (0.0050)	-	-	-	-	0.0012	ND (0.005)	-	ND (0.005)
Cadmium (Dissolved)	mg/L	0.005	349	-	-	-	ND (0.0050)	ND (0.0050)	-	-	-	-	-	-	-	-
Calcium	mg/L	-	-	-	-	-	78.6	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	72.5	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	0.1	-	-	ND (0.002)	ND (0.01)	0.0044 J	ND (0.010) U	-	-	-	-	ND (0.002)	ND (0.005)	-	ND (0.01)
Cobalt	mg/L	0.73	14000	-	-	-	0.0012 J	0.0025 J	-	-	-	-	-	-	-	-
Cobalt (Dissolved)	mg/L	0.73	14000	-	-	-	ND (0.050)	0.00075 J	-	-	-	-	-	-	-	-
Copper	mg/L	1.3	27900	-	-	-	ND (0.025)	ND (0.025) U	-	-	-	-	-	-	-	-
Copper (Dissolved)	mg/L	1.3	27900	-	-	-	ND (0.025)	ND (0.025) U	-	-	-	-	-	-	-	-
Cyanide (total)	mg/L	0.2	14000	-	-	-	ND (0.010)	ND (0.010)	-	-	-	-	-	-	-	-
Iron	mg/L	11	209000	-	-	-	0.29	-	-	-	-	-	0.19	0.19	-	-

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	HD-4	HD-4	HD-4	HD-4	HD-4	HD-5	HD-5	HD-5	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8
Sample ID:	HD-4 6/15/2000	HD-4-City	GTLF-071002-H4	WG-032403-GJL-074	HD-5 11/19/98	HD-5	HD-5	HD-5 6/10/99	HD-8 6/10/99	HD-8 05/12/00	HD-8-City	W-060200-JC-009	W-060200-JC-010	HD-8-City	HD-8-City	HD-8-City
Sample Date:	6/15/2000	6/15/2000	7/10/2002	3/24/2003	11/19/1998	12/10/1998	6/10/1999	3/19/1999	6/10/1999	5/12/2000	5/12/2000	6/2/2000	6/2/2000	6/2/2000	6/14/2000	6/14/2000
Sample Depth:																
Duplicate																
Parameters	Units															
Lead	mg/L	0.015	-	-	0.0012	ND (0.015)	ND (0.0030)	-	-	-	-	0.0011	ND (0.015)	-	-	ND (0.015)
Magnesium	mg/L	-	-	-	-	-	29.5	-	-	-	-	-	-	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	27.3	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.88	97700	-	-	-	0.45	0.40	-	-	-	-	-	-	0.041	0.041
Manganese (Dissolved)	mg/L	0.88	97700	-	-	-	0.11	0.19	-	-	-	-	-	-	-	-
Mercury	mg/L	0.002	0.529	1.12	ND (0.0002)	ND (0.0005)	ND (0.00020)	ND (0.00020)	-	-	-	ND (0.0002)	ND (0.0005)	-	-	ND (0.0005)
Nickel	mg/L	0.1	14000	-	-	-	0.0055 J	0.0051 J	-	-	-	-	-	-	-	-
Nickel (Dissolved)	mg/L	0.1	14000	-	-	-	ND (0.040)	ND (0.040)	-	-	-	-	-	-	-	-
Potassium	mg/L	-	-	-	-	-	4.8 J	-	-	-	-	-	-	-	-	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	4.5 J	-	-	-	-	-	-	-	-	-
Sodium	mg/L	-	-	-	-	-	54.6	-	-	-	-	-	-	-	-	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	50.9	-	-	-	-	-	-	-	-	-
Thallium	mg/L	0.002	48.9	-	-	-	ND (0.0010)	0.000047 J	-	-	-	-	-	-	-	-
Thallium (Dissolved)	mg/L	0.002	48.9	-	-	-	ND (0.0010)	0.000034 J	-	-	-	-	-	-	-	-
Vanadium	mg/L	0.26	4890	-	-	-	0.00292 J	0.0014 J	-	-	-	-	-	-	-	-
Zinc	mg/L	11	209000	-	-	-	ND (0.020)	ND (0.020)	-	-	-	-	-	-	-	-
Zinc (Dissolved)	mg/L	11	209000	-	-	-	ND (0.020)	ND (0.020)	-	-	-	-	-	-	-	-
Gas																
Ethane	mg/L	-	-	-	-	-	ND (0.0005)	ND (0.0005)	-	-	-	-	-	-	-	-
Ethene	mg/L	-	-	-	-	-	ND (0.0005)	ND (0.0005)	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	ND (0.00084) U	ND (0.0005)	-	-	-	-	-	-	-	-
Petroleum Products																
Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																
Alkalinity, Total (As CaCO ₃)	mg/L	-	-	-	-	-	240	270	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	108	132	-	-	-	-	-	-	-	-
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
Hardness	mg/L	-	-	-	-	-	318	-	-	-	-	-	-	-	-	-
Nitrate (as N)	mg/L	10	-	-	-	-	1.2	2.0	-	-	-	-	-	-	-	-
Nitrite (as N)	mg/L	1	-	-	-	-	ND (0.10)	ND (0.10)	-	-	-	-	-	-	-	-
Sulfate	mg/L	-	-	-	-	-	75.1	79.5	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	ND (1.0)	ND (1.0)	-	-	-	-	-	-	-	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	514	-	464	-	-	-	-

Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Industrial Drinking Water Criteria (MCL/PRG with CRL of E-5)

b Groundwater Direct Contact Criteria

c Site Specific Groundwater Volatilization to Indoor Air Criteria

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8
Sample ID:	HD-8 6/15/2000	HD-8 Duplicate 6/15/2000	GW-081100-JC-006	GW-101000-LB-005	GW-111600-LB-002	GW-030901-ME-001	GCAH-070202-H8	WG-031803-GJL-048	WG-12638-042803-NZ-345			
Sample Date:	6/15/2000	6/15/2000	8/11/2000	10/10/2000	11/16/2000	3/9/2001	7/2/2002	3/18/2003	4/28/2003			
Sample Depth:												
<i>Duplicate</i>												
Parameters	Units											
Volatiles	a	b	c									
1,1,1-Trichloroethane	mg/L	0.2	1320	3380	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.003) J	ND (0.0014)	ND (0.0017)	
1,1-Dichloroethane	mg/L	3.7	446	1320	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0012)	ND (0.0014)	ND (0.0017)	
1,1-Dichloroethene	mg/L	0.007	157	196	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0012)	ND (0.0014)	ND (0.0017)	
Carbon disulfide	mg/L	3.7	340	553	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0012)	ND (0.0014)	ND (0.0017)	
Chloroform (Trichloromethane)	mg/L	0.08	4.19	2.2	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	0.0012	ND (0.0014) U	0.0017
cis-1,2-Dichloroethene	mg/L	0.07	103	-	0.0098	0.0091	0.0065	0.0067	0.0058	0.011	0.0037	0.011
Cyclohexane	mg/L	210	22700	-	-	-	-	-	-	ND (0.0012)	ND (0.0014)	ND (0.0017)
Dichlorodifluoromethane (CFC-12)	mg/L	7.3	245	21.7	ND (0.005)	ND (0.005)	-	-	-	ND (0.0012)	ND (0.0014)	ND (0.0017) U
Methyl cyclohexane	mg/L	31	-	-	-	-	-	-	-	ND (0.0012)	ND (0.0014)	ND (0.0017)
Methylene chloride	mg/L	0.005	108	100	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005) U	ND (0.0012)	ND (0.0014)	ND (0.0017)
Tetrachloroethene	mg/L	0.005	3.83	18.6	0.053*	0.0495*	0.049*	0.048*	0.048*	0.078*	0.035*	0.034*
Toluene	mg/L	1	281	1030	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0012)	ND (0.0014)	ND (0.0017)
trans-1,2-Dichloroethene	mg/L	0.1	145	-	ND (0.005)	ND (0.005)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0062)	ND (0.0072)
Trichloroethene	mg/L	0.005	28.6	30.7	0.0487*	0.0466*	0.047*	0.043*	0.041*	0.05*	0.04*	0.039*
Vinyl chloride	mg/L	0.002	0.835	4.32	ND (0.002)	ND (0.002)	ND (0.01)	ND (0.01)	ND (0.01)	ND (0.012)	ND (0.0014)	ND (0.0017)
Xylene (total)	mg/L	10	130	342	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.0012)	ND (0.0014)
Volatiles - BTEX												
Toluene	mg/L	1	281	1030	-	-	-	-	-	-	-	-
PAH												
Benzo(a)anthracene	mg/L	0.00092	0.0214	-	-	-	-	-	-	-	-	-
Chrysene	mg/L	0.092	2.14	-	-	-	-	-	-	-	-	-
Fluoranthene	mg/L	1.5	19	-	-	-	-	-	-	-	-	-
Semi - Volatiles												
4-Methylphenol	mg/L	-	-	-	-	-	-	-	ND (0.01)	0.0042	-	-
Benzo(a)anthracene	mg/L	0.00092	0.0214	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-
Coprostanol	mg/L	18	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-
Chrysene	mg/L	0.092	2.14	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-
Fluoranthene	mg/L	1.5	19	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-
Metals												
Arsenic	mg/L	0.05	32.6	-	ND (0.005)	ND (0.005)	-	-	0.0030 J	0.020	0.0046 J	
Arsenic (Dissolved)	mg/L	0.05	32.6	-	-	-	-	-	-	-	0.0039 J	
Barium	mg/L	2	48900	-	0.125	0.119	-	-	-	0.11 J	0.16 J	0.15 J
Barium (Dissolved)	mg/L	2	48900	-	-	-	-	-	-	-	-	0.13 J
Cadmium	mg/L	0.005	349	-	ND (0.001)	ND (0.001)	-	-	-	ND (0.0050) U	ND (0.0050)	ND (0.0050)
Cadmium (Dissolved)	mg/L	0.005	349	-	-	-	-	-	-	-	-	ND (0.0050)
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chromium Total	mg/L	0.1	-	-	ND (0.002)	ND (0.002)	-	-	0.0015 J	0.0037 J	ND (0.010)	
Cobalt	mg/L	0.73	14000	-	-	-	-	-	ND (0.050)	ND (0.050) U	0.0012 J	
Cobalt (Dissolved)	mg/L	0.73	14000	-	-	-	-	-	-	-	0.0011 J	
Copper	mg/L	1.3	27900	-	-	-	-	-	ND (0.025)	ND (0.025)	ND (0.025)	
Copper (Dissolved)	mg/L	1.3	27900	-	-	-	-	-	-	-	ND (0.025)	
Cyanide (total)	mg/L	0.2	14000	-	-	-	-	-	ND (0.010)	ND (0.010)		
Iron	mg/L	11	209000	-	-	-	-	0.16	0.18 J	0.35	-	-

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8	HD-8											
Sample ID:	HD-8 6/15/2000	HD-8 Duplicate 6/15/2000	GW-081100-JC-006	GW-101000-LB-005	GW-111600-LB-002	GW-030901-ME-001	GCAH-070202-H8	WG-031803-GJL-048	WG-12638-042803-NZ-345													
Sample Date:	6/15/2000	6/15/2000	8/11/2000	10/10/2000	11/16/2000	3/9/2001	7/2/2002	3/18/2003	4/28/2003													
Sample Depth:	Duplicate																					
Parameters																						
Units																						
Lead	mg/L	0.015	-	-	0.0012	0.0011	-	-	-	ND (0.0030)	ND (0.0030)											
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-											
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-											
Manganese	mg/L	0.88	97700	-	-	-	0.040	0.043	0.087	-	ND (0.015) U											
Manganese (Dissolved)	mg/L	0.88	97700	-	-	-	-	-	-	-	0.22											
Mercury	mg/L	0.002	0.529	1.12	ND (0.0002)	ND (0.0002)	-	-	-	ND (0.00020)	0.000094 J											
Nickel	mg/L	0.1	14000	-	-	-	-	-	-	ND (0.040)	0.0049 J											
Nickel (Dissolved)	mg/L	0.1	14000	-	-	-	-	-	-	-	0.0032 J											
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-											
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-											
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-											
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-											
Thallium	mg/L	0.002	48.9	-	-	-	-	-	-	ND (0.0010)	ND (0.0010)											
Thallium (Dissolved)	mg/L	0.002	48.9	-	-	-	-	-	-	-	ND (0.0010)											
Vanadium	mg/L	0.26	4890	-	-	-	-	-	-	ND (0.050)	ND (0.050)											
Zinc	mg/L	11	209000	-	-	-	-	-	-	ND (0.020)	ND (0.020) U											
Zinc (Dissolved)	mg/L	11	209000	-	-	-	-	-	-	-	0.026											
Gas																						
Ethane	mg/L	-	-	-	-	-	-	-	-	-	ND (0.0005)											
Ethene	mg/L	-	-	-	-	-	-	-	-	-	ND (0.0005)											
Methane	mg/L	-	-	-	-	-	-	-	-	-	0.0023											
Petroleum Products																						
Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-	-	0.62	0.45	-	-	-											
General Chemistry																						
Alkalinity, Total (As CaCO ₃)	mg/L	-	-	-	-	-	-	-	-	-	240 J											
Chloride	mg/L	-	-	-	-	-	-	-	-	-	132											
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	-	-	-	-	-	-	7											
Hardness	mg/L	-	-	-	-	-	-	-	-	-	-											
Nitrate (as N)	mg/L	10	-	-	-	-	-	-	-	-	1.3 J											
Nitrite (as N)	mg/L	1	-	-	-	-	-	-	-	-	ND (0.10)											
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	70.0											
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	0.90 J											
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-											

Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Industrial Drinking Water Criteria (MCL/PRG with CRL of E-5)

b Groundwater Direct Contact Criteria

c Site Specific Groundwater Volatilization to Indoor Air Criteria

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:													HD-8	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9
Sample ID:													WG-12638-081303-LB-368	HD-9	HD-9 6/10/99	HD-9 05/12/00	HD-9-City	HD-9 Dup 05/12/00	W-060200-JC-007	HD-9 6/14/2000	HD-9-City	GCAH-062702-H9	HD-9 031903-SEB-056	WG-031903-SEB-057					
Sample Date:													8/13/2003	3/19/1999	6/10/1999	5/12/2000	5/12/2000	5/12/2000	6/2/2000	6/14/2000	6/14/2000	6/27/2002	3/19/2003	3/19/2003					
Sample Depth:																													
<i>Duplicate</i>																				<i>Duplicate</i>									
Parameters	Units																												
Volatiles	a	b	c																										
1,1,1-Trichloroethane	mg/L	0.2	1320	3380	ND (0.0012)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)							
1,1-Dichloroethane	mg/L	3.7	446	1320	ND (0.0012)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)							
1,1-Dichloroethene	mg/L	0.007	157	196	ND (0.0012)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)							
Carbon disulfide	mg/L	3.7	340	553	ND (0.0012)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)							
Chloroform (Trichloromethane)	mg/L	0.08	4.19	2.2	0.0015	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.0025)							
cis-1,2-Dichloroethene	mg/L	0.07	103	-	0.0032	0.027	0.0177	0.0144	0.01	0.015	0.011	0.013	0.01	0.005	0.012	0.011	0.01	0.005	0.012	0.011									
Cyclohexane	mg/L	210	22700	-	ND (0.0012)	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.002)	ND (0.0025)	ND (0.0025)								
Dichlorodifluoromethane (CFC-12)	mg/L	7.3	245	21.7	ND (0.0012)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)													
Methyl cyclohexane	mg/L	31	-	-	ND (0.0012)	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.002)	ND (0.0025)	ND (0.0025)								
Methylene chloride	mg/L	0.005	108	100	ND (0.0012)	ND (0.01)	ND (0.01)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)													
Tetrachloroethene	mg/L	0.005	3.83	18.6	0.028*	0.0288*	0.0231*	0.0198*	0.02*	0.0197*	0.015*	0.0171*	0.016*	0.026*	0.087*	0.087*	0.087*	0.087*											
Toluene	mg/L	1	281	1030	ND (0.0012)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)													
trans-1,2-Dichloroethene	mg/L	0.1	145	-	ND (0.0062)	ND (0.002)	ND (0.002)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.001)	ND (0.0012)	ND (0.0012)													
Trichloroethene	mg/L	0.005	28.6	30.7	0.034*	0.0698*	0.0451*	0.0497*	0.042*	0.0496*	0.04*	0.0448*	0.038*	0.047*	0.056*	0.055*	0.055*	0.055*											
Vinyl chloride	mg/L	0.002	0.835	4.32	ND (0.0012)	ND (0.002)	ND (0.01)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.0025)	ND (0.0025)	ND (0.0025)												
Xylene (total)	mg/L	10	130	342	ND (0.0012)	ND (0.002)	ND (0.002)	ND (0.005)	-	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.002)	ND (0.0025)	ND (0.0025)								
Volatiles - BTEX																													
Toluene	mg/L	1	281	1030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PAH																													
Benz(a)anthracene	mg/L	0.00092	0.0214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	mg/L	0.092	2.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	mg/L	1.5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Semi - Volatiles																													
4-Methylphenol	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	ND (0.01)								
Benz(a)anthracene	mg/L	0.00092	0.0214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	ND (0.01)								
Caprolactam	mg/L	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	ND (0.01)								
Chrysene	mg/L	0.092	2.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	ND (0.01)								
Fluoranthene	mg/L	1.5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	ND (0.01)								
Metals																													
Arsenic	mg/L	0.05	32.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.03)	ND (0.03)	ND (0.03)								
Arsenic (Dissolved)	mg/L	0.05	32.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0027 J	ND (0.010) U	0.0042 J								
Barium	mg/L	2	48900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.174	0.19	0.21								
Barium (Dissolved)	mg/L	2	48900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	0.20	0.19 J								
Cadmium	mg/L	0.005	349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.001)	ND (0.005)	ND (0.0050)								
Cadmium (Dissolved)	mg/L	0.005	349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00042 J	ND (0.0050)	ND (0.0050) U								
Calcium	mg/L	-	-	-	62.3	-	-	-	-	-	-	-	-	-	-	-	-	-	101 J	-	-								
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.6	-	-								
Chromium Total	mg/L	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0043 J	ND (0.010)	ND (0.010) U								
Cobalt	mg/L	0.73	14000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0040 J	ND (0.050) U	ND (0.050)								
Cobalt (Dissolved)	mg/L	0.73	14000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.050)	0.00089 J	ND (0.050)								
Copper	mg/L	1.3	27900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0020 J	ND (0.025)	ND (0.025)								
Copper (Dissolved)	mg/L	1.3	27900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.025)	ND (0.025)	ND (0.025)								
Cyanide (total)	mg/L	0.2	14000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.010)	ND (0.010)	ND (0.010)								
Iron	mg/L	11	209000	-	ND (0.10)	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-	0.30	-								

Table 1
Groundwater Samples from F. A. Requaugh Company Property
Dayton Ohio

Sample Location:	HD-8	HD-9	HD-9	HD-9	HD-9	HD-9-City	HD-9	HD-9	HD-9	HD-9	HD-9	HD-9-City	HD-9	HD-9	HD-9	HD-9	HD-9	
Sample ID:	WG-12638-081303-LB-368	8/13/2003	3/19/1999	6/10/1999	HD-9 05/12/00	5/12/2000	5/12/2000	HD-9 Dup 05/12/00	W-060200-JC-007	6/2/2000	6/14/2000	6/14/2000	6/14/2000	GCAH-062702-H9	WG-031903-SEB-056	3/19/2003	WG-031903-SEB-057	
Sample Date:																		
Sample Depth:																		
<i>Duplicate</i>																		
Parameters	Units																	<i>Duplicate</i>
Lead	mg/L	0.015	-	-	-	-	-	0.03*	0.044*	0.038*	-	0.0029	ND (0.015)	ND (0.0030)	ND (0.0030)	ND (0.0030)		
Magnesium	mg/L	-	-	-	24.2	-	-	-	-	-	-	-	40.1	-	-	-		
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	39.6	-	-	-		
Manganese	mg/L	0.88	97700	-	0.089	-	-	-	-	-	0.46	-	0.84	0.31	0.31	0.32		
Manganese (Dissolved)	mg/L	0.88	97700	-	-	-	-	-	-	-	-	-	0.22	0.17	0.17	0.16		
Mercury	mg/L	0.002	0.529	1.12	-	-	-	ND (0.0002)	ND (0.0005)	ND (0.0002)	-	ND (0.0002)	ND (0.0005)	ND (0.00020)	ND (0.00020)	ND (0.00020)		
Nickel	mg/L	0.1	14000	-	-	-	-	-	-	-	-	-	0.0057 J	ND (0.040) U	ND (0.040) U	ND (0.040) U		
Nickel (Dissolved)	mg/L	0.1	14000	-	-	-	-	-	-	-	-	-	0.0034 J	ND (0.040)	ND (0.040)	ND (0.040)		
Potassium	mg/L	-	-	-	3.8 J	-	-	-	-	-	-	-	4.5 J	-	-	-		
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	4.4 J	-	-	-		
Sodium	mg/L	-	-	-	62.4	-	-	-	-	-	-	-	56.0	-	-	-		
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-	-	-	-	-	54.7	-	-	-		
Thallium	mg/L	0.002	48.9	-	-	-	-	-	-	-	-	-	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)		
Thallium (Dissolved)	mg/L	0.002	48.9	-	-	-	-	-	-	-	-	-	ND (0.0010)	ND (0.0010)	ND (0.0010)	ND (0.0010)		
Vanadium	mg/L	0.26	4890	-	-	-	-	-	-	-	-	-	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)		
Zinc	mg/L	11	209000	-	-	-	-	-	-	-	-	-	0.030	ND (0.020)	ND (0.020)	ND (0.020)		
Zinc (Dissolved)	mg/L	11	209000	-	-	-	-	-	-	-	-	-	0.019 J	ND (0.020)	ND (0.020)	ND (0.020)		
Gas																		
Ethane	mg/L	-	-	-	ND (0.0005)	-	-	-	-	-	-	-	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)		
Ethene	mg/L	-	-	-	ND (0.0005)	-	-	-	-	-	-	-	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)		
Methane	mg/L	-	-	-	ND (0.0005)	-	-	-	-	-	-	-	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)		
Petroleum Products																		
Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
General Chemistry																		
Alkalinity, Total (As CaCO ₃)	mg/L	-	-	-	230	-	-	-	-	-	-	-	330	320	330	330		
Chloride	mg/L	-	-	-	94.3 J	-	-	-	-	-	-	-	120	125	126	126		
Dissolved Organic Carbon (DOC)	mg/L	-	-	-	2	-	-	-	-	-	-	-	ND (1)	0.7 J	0.8 J	0.8 J		
Hardness	mg/L	-	-	-	255	-	-	-	-	-	-	-	427	-	-	-		
Nitrate (as N)	mg/L	10	-	-	1.6	-	-	-	-	-	-	-	1.9	2.1	2.1	2.1		
Nitrite (as N)	mg/L	1	-	-	ND (0.10)	-	-	-	-	-	-	-	0.025 J	ND (0.10)	ND (0.10)	ND (0.10)		
Sulfate	mg/L	-	-	-	64.7	-	-	-	-	-	-	-	84.1	89.1	89.3	89.3		
Sulfide	mg/L	-	-	-	ND (1.0) U	-	-	-	-	-	-	-	ND (1.0)	1.3	0.80 J	0.80 J		
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Industrial Drinking Water Criteria (MCL/PRG with CRL of E-5)

b Groundwater Direct Contact Criteria

c Site Specific Groundwater Volatilization to Indoor Air Criteria

Table 1
Groundwater Samples from F. A. Requar Company Property
Dayton Ohio

Sample Location:	HD-9	HD-9	MW-6A-03	MW-6A-03	MW-6A-03	MW-6A-03	MW-6B-03	MW-6B-03
Sample ID:	WG-12638-050103-NZ-351	WG-12638-081303-LB-370	WG-020503-SEB	WG-12638-042503-NZ-341	WG-12638-042503-NZ-342	WG-12638-081203-LB-361	WG-020703-SEB-007	WG-12638-042503-NZ-340
Sample Date:	5/1/2003	8/13/2003	2/5/2003	4/25/2003	4/25/2003	8/12/2003	2/7/2003	4/25/2003
Sample Depth:								Duplicate
Parameters	Units							
Lead	mg/L	0.015	-	ND (0.0030)	U	-	ND (0.0030)	0.0034
Magnesium	mg/L	-	-	43.3	-	-	39.9	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	0.88	97700	-	0.36 J	0.35	0.51	0.23
Manganese (Dissolved)	mg/L	0.88	97700	-	0.17 J	-	0.50	0.072
Mercury	mg/L	0.002	0.529	1.12	ND (0.00020)	-	ND (0.00020)	ND (0.00020)
Nickel	mg/L	0.1	14000	-	ND (0.040) U	-	ND (0.040)	ND (0.040)
Nickel (Dissolved)	mg/L	0.1	14000	-	ND (0.040)	-	ND (0.040)	ND (0.040)
Potassium	mg/L	-	-	-	5.9	-	12.1	-
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	-	-	84.9	-	-	85.2	-
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	0.002	48.9	-	ND (0.0010)	-	ND (0.0010)	ND (0.0010)
Thallium (Dissolved)	mg/L	0.002	48.9	-	ND (0.0010)	-	ND (0.0010)	ND (0.0010)
Vanadium	mg/L	0.26	4890	-	0.0023 J	-	ND (0.050)	ND (0.050)
Zinc	mg/L	11	209000	-	0.021	-	ND (0.020)	ND (0.020)
Zinc (Dissolved)	mg/L	11	209000	-	ND (0.020)	-	ND (0.020)	ND (0.020)
Gas								
Ethane	mg/L	-	-	ND (0.0005)	ND (0.0005)	0.0047	0.0079	0.008
Ethene	mg/L	-	-	ND (0.0005)	ND (0.0005)	0.0012	0.052	0.024
Methane	mg/L	-	-	ND (0.0005)	ND (0.0005)	0.18	0.17	0.71
Petroleum Products								
Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-	-	-	-
General Chemistry								
Alkalinity, Total (as CaCO ₃)	mg/L	-	-	290 J	300	280	390 J	360
Chloride	mg/L	-	-	137	189 J	70.6	112	137
Dissolved Organic Carbon (DOC)	mg/L	-	-	ND (1)	2	5	20	2
Hardness	mg/L	-	-	-	455	-	-	401
Nitrate (as N)	mg/L	10	-	1.5	1.5	ND (0.10)	ND (0.10)	ND (0.10)
Nitrite (as N)	mg/L	1	-	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)	ND (0.10)
Sulfate	mg/L	-	-	78.9	80.8	19.1	7.6	18.4
Sulfide	mg/L	-	-	ND (1.0) U	ND (2.6) U	ND (1.0)	1.1	1.0
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	-	-

Notes:

U Non-detect at associated value.

J Estimated.

ND Non-detect at associated value. The associated value is estimated.

a Industrial Drinking Water Criteria (MCL/PRG with CRL of E-5)

b Groundwater Direct Contact Criteria

c Site Specific Groundwater Volatilization to Indoor Air Criteria

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	MW-6B-03	MW-6B-03	MW-7A-03	MW-7A-03	MW-7A-03	MW-7A-03	MW-7B-03	MW-7B-03
Sample ID:	WG-12638-081203-LB-362	WG-12638-081203-LB-363	WG-020703-GJL-003	WG-020703-GJL-004	WG-12638-042803-NZ-343	WG-12638-081303-LB-365	WG-020603-SEB-001	WG-12638-042803-NZ-344
Sample Date:	8/12/2003	8/12/2003	2/7/2003	2/7/2003	4/28/2003	8/13/2003	2/6/2003	4/28/2003
Sample Depth:	Duplicate							
Parameters	Units							
Volatiles								
	a	b	c					
1,1,1-Trichloroethane	mg/L	0.2	1320	3380	ND (0.033)	ND (0.033)	ND (0.02) UJ	ND (0.018) UJ
1,1-Dichloroethane	mg/L	3.7	446	1320	ND (0.033)	ND (0.033)	ND (0.02)	ND (0.018)
1,1-Dichloroethene	mg/L	0.007	157	196	ND (0.033)	ND (0.033)	ND (0.02)	ND (0.018)
Carbon disulfide	mg/L	3.7	340	553	ND (0.033)	ND (0.033)	ND (0.02) UJ	ND (0.018) UJ
Chloroform (Trichloromethane)	mg/L	0.08	4.19	2.2	ND (0.033)	ND (0.033)	ND (0.02)	ND (0.018)
cis-1,2-Dichloroethene	mg/L	0.07	103	-	0.85*	0.85*	0.44*	0.49*
Cyclohexane	mg/L	210	22700	-	ND (0.033)	ND (0.033)	ND (0.02)	ND (0.018)
Dichlorodifluoromethane (CFC-12)	mg/L	7.3	245	21.7	ND (0.033)	ND (0.033)	ND (0.02) UJ	ND (0.018) UJ
Methyl cyclohexane	mg/L	31	-	-	ND (0.033)	ND (0.033)	ND (0.02)	ND (0.018)
Methylene chloride	mg/L	0.005	108	100	0.014 J*	0.015 J*	ND (0.02) U	0.0086*
Tetrachloroethene	mg/L	0.005	3.83	18.6	0.038*	0.044*	ND (0.02)	ND (0.018)
Toluene	mg/L	1	281	1030	ND (0.033)	ND (0.033)	ND (0.02)	ND (0.018)
trans-1,2-Dichloroethene	mg/L	0.1	145	-	ND (0.017)	ND (0.017)	ND (0.01)	ND (0.0091)
Trichloroethene	mg/L	0.005	28.6	30.7	0.015 J*	0.017 J*	ND (0.02)	ND (0.018)
Vinyl chloride	mg/L	0.002	0.835	4.32	0.044*	0.046*	0.27*	0.32*
Xylene (total)	mg/L	10	130	342	ND (0.033)	ND (0.033)	ND (0.02)	ND (0.018)
Volatiles - BTEX								
Toluene	mg/L	1	281	1030	-	-	-	-
PAH								
Benzo(a)anthracene	mg/L	0.00092	0.0214	-	-	-	-	-
Chrysene	mg/L	0.092	2.14	-	-	-	-	-
Fluoranthene	mg/L	1.5	19	-	-	-	-	-
Semi-Volatiles								
4-Methylphenol	mg/L	-	-	-	-	ND (0.01)	ND (0.01)	-
Benz(a)anthracene	mg/L	0.00092	0.0214	-	-	ND (0.01)	ND (0.01)	-
Caprolactam	mg/L	18	-	-	-	ND (0.01)	ND (0.01)	-
Chrysene	mg/L	0.092	2.14	-	-	ND (0.01)	ND (0.01)	-
Fluoranthene	mg/L	1.5	19	-	-	ND (0.01)	ND (0.01)	-
Metals								
Arsenic	mg/L	0.05	32.6	-	-	0.0045 J	0.0070 J	0.0064 J
Arsenic (Dissolved)	mg/L	0.05	32.6	-	-	0.0061 J	0.0050 J	0.0062 J
Barium	mg/L	2	48900	-	-	0.18 J	0.19 J	0.27
Barium (Dissolved)	mg/L	2	48900	-	-	0.20	0.20	0.26
Cadmium	mg/L	0.005	349	-	-	ND (0.0050) U	ND (0.0050)	ND (0.0050)
Cadmium (Dissolved)	mg/L	0.005	349	-	-	ND (0.0050)	ND (0.0050)	ND (0.0050)
Calcium	mg/L	-	-	79.7	83.7	-	-	113
Calcium (Dissolved)	mg/L	-	-	-	-	-	-	-
Chromium Total	mg/L	0.1	-	-	-	0.023	0.022	ND (0.010) U
Cobalt	mg/L	0.73	14000	-	-	0.0018 J	0.0012 J	ND (0.050) U
Cobalt (Dissolved)	mg/L	0.73	14000	-	-	0.00081 J	0.00011 J	ND (0.050) U
Copper	mg/L	1.3	27900	-	-	ND (0.025)	ND (0.025)	ND (0.025)
Copper (Dissolved)	mg/L	1.3	27900	-	-	ND (0.025)	ND (0.025)	ND (0.025)
Cyanide (total)	mg/L	0.2	14000	-	-	0.0025 J	0.0024 J	ND (0.010)
Iron	mg/L	11	209000	-	3.1	3.4	-	3.8

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:	MW-6B-03	MW-6B-03	MW-7A-03	MW-7A-03	MW-7A-03	MW-7A-03	MW-7B-03	MW-7B-03
Sample ID:	WG-12638-081203-LB-362	WG-12638-081203-LB-363	WG-020703-GJL-003	WG-020703-GJL-004	WG-12638-042803-NZ-343	WG-12638-081303-LB-365	WG-020603-SEB-001	WG-12638-042803-NZ-344
Sample Date:	8/12/2003	8/12/2003	2/7/2003	2/7/2003	4/28/2003	8/13/2003	2/6/2003	4/28/2003
Sample Depth:	<i>Duplicate</i>							
Parameters	Units							
Lead	mg/L	0.015	-	-	-	-	ND (0.0030)	ND (0.0030)
Magnesium	mg/L	-	-	33.8	35.3	-	-	-
Magnesium (Dissolved)	mg/L	-	-	-	-	-	-	-
Manganese	mg/L	0.88	97700	0.23	0.24	1.2 *	1.2 *	0.15
Manganese (Dissolved)	mg/L	0.88	97700	-	-	0.95 *	0.92 *	0.15
Mercury	mg/L	0.002	0.529	1.12	-	ND (0.00020)	0.00018 J	ND (0.00020)
Nickel	mg/L	0.1	14000	-	-	0.021 J	0.015 J	ND (0.040)
Nickel (Dissolved)	mg/L	0.1	14000	-	-	0.0033 J	ND (0.040)	ND (0.040)
Potassium	mg/L	-	-	3.1 J	3.2 J	-	-	18.6
Potassium (Dissolved)	mg/L	-	-	-	-	-	-	-
Sodium	mg/L	-	-	65.0	67.4	-	-	74.5
Sodium (Dissolved)	mg/L	-	-	-	-	-	-	-
Thallium	mg/L	0.002	48.9	-	-	ND (0.0010)	ND (0.0010)	ND (0.0010)
Thallium (Dissolved)	mg/L	0.002	48.9	-	-	ND (0.0010)	ND (0.0010)	ND (0.0010)
Vanadium	mg/L	0.26	4890	-	-	ND (0.050)	ND (0.050)	ND (0.050)
Zinc	mg/L	11	209000	-	-	ND (0.020)	ND (0.020)	ND (0.020)
Zinc (Dissolved)	mg/L	11	209000	-	-	ND (0.020)	ND (0.020)	ND (0.020)
Gas								
Ethane	mg/L	-	-	ND (0.0005) U	ND (0.0005) U	0.0052	0.0052	0.02
Ethene	mg/L	-	-	0.0022	0.0023	0.0043	0.0043	0.045
Methane	mg/L	-	-	0.0078	0.0075	0.068	0.067	0.21
Petroleum Products								
Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-	-	-	-
General Chemistry								
Alkalinity, Total (As CaCO ₃)	mg/L	-	-	240	240	330	340	370 J
Chloride	mg/L	-	-	118	117	102	103	90.8
Dissolved Organic Carbon (DOC)	mg/L	-	-	3	2	15	16	7
Hardness	mg/L	-	-	338	209	-	-	441
Nitrate (as N)	mg/L	10	-	ND (0.10)	0.010 J	0.040 J	0.080 J	ND (0.10)
Nitrite (as N)	mg/L	1	-	ND (0.10)	0.070 J	ND (0.10)	ND (0.10)	ND (0.10)
Sulfate	mg/L	-	-	52.0	52.1	31.2	31.3	17.2
Sulfide	mg/L	-	-	1.5	ND (1.0)	2.5	0.54 J	0.90 J
Total Dissolved Solids (TDS)	mg/L	-	-	-	-	-	ND (1.7) U	ND (1.7) U

Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Industrial Drinking Water Criteria (MCL/PRG with CRL of E-5)

b Groundwater Direct Contact Criteria

c Site Specific Groundwater Volatilization to Indoor Air Criteria

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location: MW-7B-03
Sample ID: WG-12638-081303-LB-366
Sample Date: 8/13/2003
Sample Depth: MW-11-03
Sample ID: WG-032003-SEB-061
Sample Date: 3/20/2003

Parameters	Units				
Volatiles					
	a	b	c		
1,1,1-Trichloroethane	mg/L	0.2	1320	3380	ND (0.033)
1,1-Dichloroethane	mg/L	3.7	446	1320	ND (0.033)
1,1-Dichloroethene	mg/L	0.007	157	196	ND (0.033)
Carbon disulfide	mg/L	3.7	340	553	ND (0.033)
Chloroform (Trichloromethane)	mg/L	0.08	4.19	2.2	ND (0.033)
cis-1,2-Dichloroethene	mg/L	0.07	103	-	0.81 *
Cyclohexane	mg/L	210	22700	-	ND (0.033)
Dichlorodifluoromethane (CFC-12)	mg/L	7.3	245	21.7	ND (0.033)
Methyl cyclohexane	mg/L	31	-	-	ND (0.033)
Methylene chloride	mg/L	0.005	108	100	ND (0.033)
Tetrachloroethene	mg/L	0.005	3.83	18.6	0.29 *
Toluene	mg/L	1	281	1030	ND (0.033)
trans-1,2-Dichloroethene	mg/L	0.1	145	-	ND (0.017)
Trichloroethene	mg/L	0.005	28.6	30.7	0.12 *
Vinyl chloride	mg/L	0.002	0.835	4.32	ND (0.033)
Xylene (total)	mg/L	10	130	342	ND (0.033)
					ND (0.001)
Volatiles - BTEX					
Toluene	mg/L	1	281	1030	-
PAH					
Benz(a)anthracene	mg/L	0.00092	0.0214	-	-
Chrysene	mg/L	0.092	2.14	-	-
Fluoranthene	mg/L	1.5	19	-	-
Semi - Volatiles					
4-Methylphenol	mg/L	-	-	-	ND (0.01)
Benz(a)anthracene	mg/L	0.00092	0.0214	-	ND (0.01)
Caprolactam	mg/L	18	-	-	ND (0.01)
Chrysene	mg/L	0.092	2.14	-	ND (0.01)
Fluoranthene	mg/L	1.5	19	-	ND (0.01)
Metals					
Arsenic	mg/L	0.05	32.6	-	ND (0.010)
Arsenic (Dissolved)	mg/L	0.05	32.6	-	-
Barium	mg/L	2	48900	-	0.20
Barium (Dissolved)	mg/L	2	48900	-	-
Cadmium	mg/L	0.005	349	-	ND (0.0050)
Cadmium (Dissolved)	mg/L	0.005	349	-	-
Calcium	mg/L	-	-	77.3	-
Calcium (Dissolved)	mg/L	-	-	-	-
Chromium Total	mg/L	0.1	-	-	0.0073 J
Cobalt	mg/L	0.73	14000	-	0.0017 J
Cobalt (Dissolved)	mg/L	0.73	14000	-	-
Copper	mg/L	1.3	27900	-	ND (0.025)
Copper (Dissolved)	mg/L	1.3	27900	-	-
Cyanide (total)	mg/L	0.2	14000	-	0.0020 J
Iron	mg/L	11	209000	2.2	-

Table 1
Groundwater Samples from F. A. Requarth Company Property
Dayton Ohio

Sample Location:

Sample ID:

Sample Date:

Sample Depth:

MW-7B-03
WG-12638-081303-LB-366
8/13/2003

MW-11-03
WG-032003-SEB-061
3/20/2003

Parameters

		Units			
Lead	mg/L	0.015	-	-	ND (0.0030)
Magnesium	mg/L	-	-	35.8	-
Magnesium (Dissolved)	mg/L	-	-	-	-
Manganese	mg/L	0.88	97700	-	0.17
Manganese (Dissolved)	mg/L	0.88	97700	-	-
Mercury	mg/L	0.002	0.529	1.12	-
Nickel	mg/L	0.1	14000	-	0.0083 J
Nickel (Dissolved)	mg/L	0.1	14000	-	-
Potassium	mg/L	-	-	-	4.9 J
Potassium (Dissolved)	mg/L	-	-	-	-
Sodium	mg/L	-	-	59.2	-
Sodium (Dissolved)	mg/L	-	-	-	-
Thallium	mg/L	0.002	48.9	-	ND (0.0010)
Thallium (Dissolved)	mg/L	0.002	48.9	-	-
Vanadium	mg/L	0.26	4890	-	ND (0.050)
Zinc	mg/L	11	209000	-	0.022
Zinc (Dissolved)	mg/L	11	209000	-	-

Gas

Ethane	mg/L	-	-	0.00051	-
Ethene	mg/L	-	-	0.0013	-
Methane	mg/L	-	-	ND (0.0014) U	-

Petroleum Products

Total Petroleum Hydrocarbons - extractable (DRO)	mg/l	-	-	-	-
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General Chemistry

Alkalinity, Total (As CaCO ₃)	mg/L	-	-	260	-
Chloride	mg/L	-	-	136 J	-
Dissolved Organic Carbon (DOC)	mg/L	-	-	2	-
Hardness	mg/L	-	-	340	-
Nitrate (as N)	mg/L	10	-	ND (0.10) U	-
Nitrite (as N)	mg/L	1	-	ND (0.10)	-
Sulfate	mg/L	-	-	41.8	-
Sulfide	mg/L	-	-	ND (1.8) U	-
Total Dissolved Solids (TDS)	mg/L	-	-	-	-

Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Industrial Drionking Water Criteria (MCL/PRG with CRL of E-5)

b Groundwater Direct Contact Criteria

c Site Specific Groundwater Volatilization to Indoor Air Criteria

January 15, 2004

RECEIVED

FEB 10 2004

Corrective Action Section
Waste Management Branch
Waste, Pesticides and Toxics Division
U.S. EPA - Region 5

Mr. Alan Pippenger
The F. A. Requarth Company
PO Box 38
Dayton, Ohio
45401-0038

Re: Soil Sampling Data – The F. A. Requarth Company

Dear Mr. Pippenger:

Enclosed are the results of the soil samples taken to date from locations on the F. A. Requarth Company property (see Figure 1). The testing of these soils has included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), poly-chlorinated biphenyls (PCBs), and metals using laboratory analytical methods developed by the United States Environmental Protection Agency (U.S. EPA). The attached Table 1 shows the laboratory results for the chemicals that were detected and the concentrations at which they were detected.

As part of its review of these data, General Motors Corporation (GM) compared the results to the following screening criteria developed to assess the potential significance of soil concentrations under different types of potential soil exposures.

- Direct contact;
- Risk-based screening levels calculated based on potential inhalation exposure to vapor migrating from soil into a commercial building. The indoor air concentrations resulting from the potential migration of vapor from soil into a building are estimated using a model recommended by USEPA for screening evaluations; and
- Leaching to groundwater.

The screening criteria for each of the constituents detected in the soil samples on the F. A. Requarth Company property are presented on Table 1.

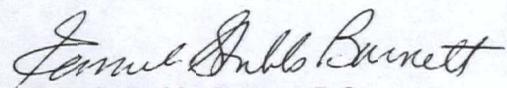
As indicated on Table 1, the only screening values that are exceeded are the direct contact and volatilization to indoor air screening values. This result was observed at a depth of 8 to 10 feet at sample location MW-7A which is located along Foundry Street. Because there is no building at this location, and samples collected at surrounding locations had lower concentrations, under current site conditions this result is not considered significant.

Thank you for allowing GM to collect soil samples on the F. A. Requarth Company property. Please call 937-455-2636, if you have any questions.

January 15, 2004

Page 2

Sincerely,



Pamela Stubbs Barnett, P.G.
Project Manager
BOW Environmental Solutions, Inc. on behalf of GM

Enclosure

Cc: Jean Caufield, GM
Patricia Polston, USEPA

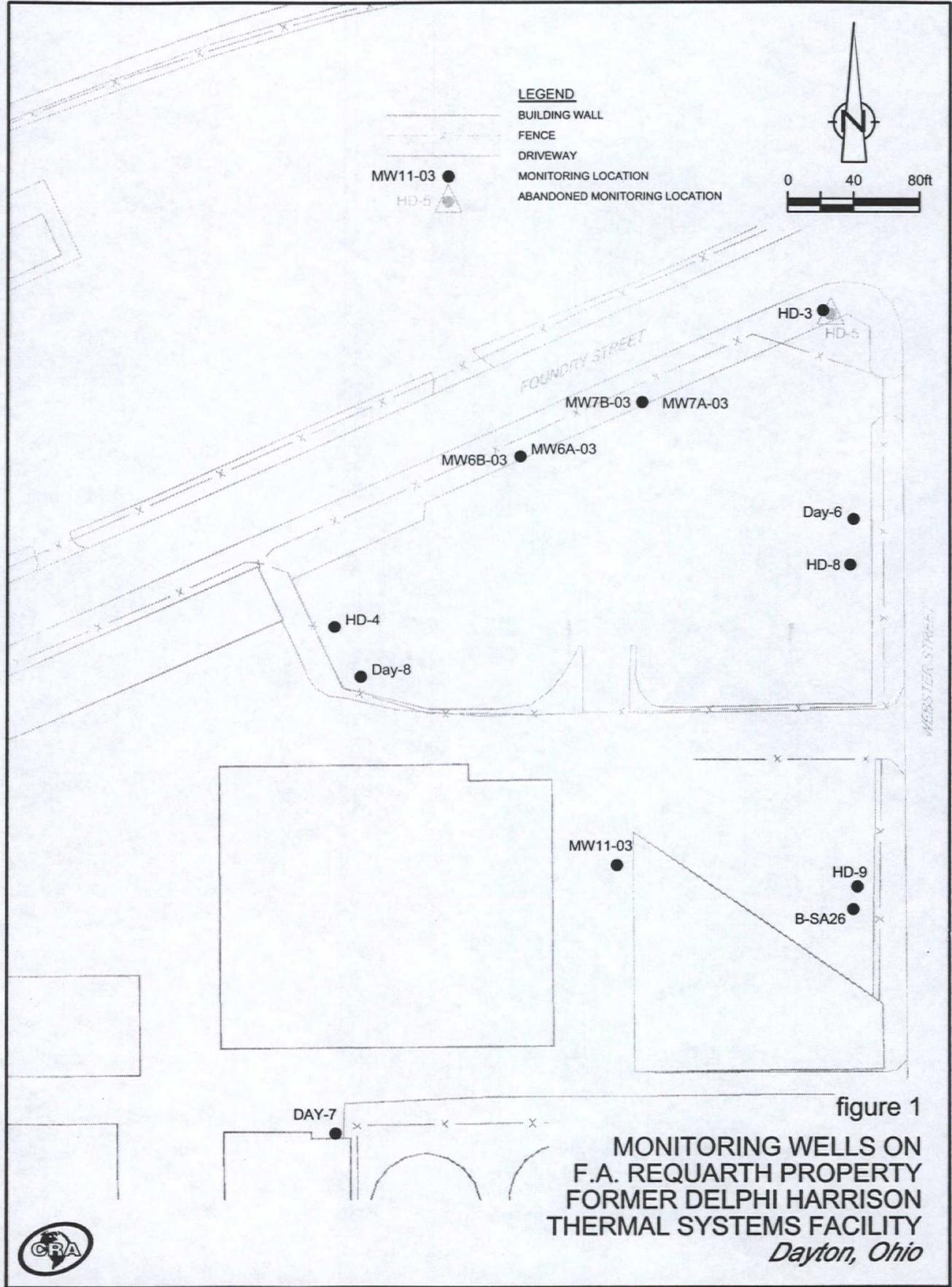


Table 1
Soil Samples from F. A. Requaugh Company Property
Dayton, Ohio

Sample Location:	B-SA26	B-SA26	B-SA26	B-SA26	HD-3	MW-6-03	MW-6-03	MW-6-03	MW-7-03	MW-7-03
Sample ID:	B-SA26 S-2	B-SA26 S-2_1	B-SA26 S-4	B-SA26 S-4_J	SB-12638-011303-JC-152	SB-12638-011303-JC-153	SB-12638-011303-JC-154	SB-12638-011503-JC-155	SB-12638-011503-JC-155	SB-12638-011503-JC-156
Sample Date:	6/10/1996	6/10/1996	6/10/1996	6/10/1996	5/6/1988	1/13/2003	1/13/2003	1/13/2003	1/15/2003	1/15/2003
Sample Depth:	3-5 ft BGS	3-5 ft BGS	7-9 ft BGS	7-9 ft BGS	24.5-26.5 ft BGS	0-2 ft BGS	8-10 ft BGS	18-20 ft BGS	0-2 ft BGS	8-10 ft BGS
Parameters	Units	a	b	c						
Volatiles										
1,1-Dichloroethene	ug/Kg	410	2.8	2.91	ND (0.006)	-	ND (0.008)	-	-	ND (0.0056)
2-Butanone (Methyl Ethyl Ketone)	ug/Kg	27000	8800	463	ND (0.011)	-	0.006 J	-	-	ND (0.022)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/Kg	-	-	-	ND (0.011)	-	ND (0.015)	-	-	ND (0.022)
Acetone	ug/Kg	6000	1480	-	0.002 JB	-	0.018 B	-	-	ND (0.022)
Carbon disulfide	ug/Kg	1200	1480	7.66	ND (0.006)	-	0.002 J	-	-	ND (0.0056)
cis-1,2-Dichloroethene	ug/Kg	150	28	-	ND (0.006)	-	0.006 J	-	ND (0.113)	ND (0.0028)
Cyclohexane	ug/Kg	32000	-	-	-	-	-	-	-	0.00078 J
Isopropylbenzene	ug/Kg	2000	-	-	-	-	-	-	-	ND (0.011)
Methyl acetate	ug/Kg	92000	-	-	-	-	-	-	-	ND (0.0056)
Methyl cyclohexane	ug/Kg	8700	-	-	-	-	-	-	-	ND (0.011) UJ
Methylene chloride	ug/Kg	210	2	2.35	ND (0.006)	-	ND (0.008)	-	-	ND (0.0056)
Tetrachloroethene	ug/Kg	34	2	0.399	ND (0.006)	-	0.003 J	-	ND (0.113)	0.0014 J
Toluene	ug/Kg	2200	400	53.5	ND (0.006)	-	ND (0.008)	-	-	0.0039 J
Trichloroethene	ug/Kg	1.2	2	1.32	ND (0.006)	-	0.002 J	-	ND (0.113)	0.0014 J
Xylene (total)	ug/Kg	900	4000	29.7	ND (0.006)	-	ND (0.008)	-	-	ND (0.011)
Volatiles - BTEX										
Toluene	ug/Kg	2200	400	53.5	ND (0.0006)	-	ND (0.0007)	-	-	-
PAH										
Acenaphthene	ug/Kg	29000	-	-	-	ND (0.038)	-	1.8	-	-
Acenaphthylene	ug/Kg	29000	-	-	-	ND (0.038)	-	2.8	-	-
Anthracene	ug/Kg	240000	-	-	-	ND (0.038)	-	2.9	-	-
Benz(a)anthracene	ug/Kg	21	-	-	-	0.17	-	9.2	-	-
Benz(a)pyrene	ug/Kg	2.1	-	-	-	0.18	-	8.8 *	-	-
Benz(b)fluoranthene	ug/Kg	21	-	-	-	0.14	-	ND (0.39)	-	-
Benz(g,h,i)perylene	ug/Kg	29000	-	-	-	0.11	-	ND (0.39)	-	-
Benz(k)fluoranthene	ug/Kg	210	-	-	-	0.082	-	ND (0.39)	-	-
Chrysene	ug/Kg	2100	-	-	-	0.21	-	ND (0.39)	-	-
Dibenz(a,h)anthracene	ug/Kg	2.1	13,984,368,000,000,000	-	-	ND (0.038)	-	ND (0.39)	-	-
Fluoranthene	ug/Kg	22000	-	-	-	0.48	-	24	-	-
Fluorene	ug/Kg	26000	-	-	-	ND (0.038)	-	2.3	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	21	-	-	-	0.12	-	ND (0.39)	-	-
Naphthalene	ug/Kg	190	292	57.9	-	0.062	-	1.2	-	-
Phenanthrene	ug/Kg	29000	-	-	-	0.49	-	12	-	-
Pyrene	ug/Kg	29000	-	-	-	0.35	-	21	-	-
Semi - Volatiles										
2-Methylnaphthalene	ug/Kg	190	292	57.9	ND (0.76)	-	0.57 J	-	-	ND (0.42)
Acenaphthene	ug/Kg	29000	-	-	ND (0.76)	-	1.3 J	-	-	ND (0.42)
Acenaphthylene	ug/Kg	29000	-	-	ND (0.76)	-	0.44 J	-	-	ND (0.42)
Anthracene	ug/Kg	240000	-	-	ND (0.76)	-	3.2 J	-	-	ND (0.42)
Benz(a)anthracene	ug/Kg	21	-	-	0.14 J	-	11	-	-	ND (0.42)
Benz(a)pyrene	ug/Kg	2.1	-	-	0.11 J	-	8.1 *	-	-	ND (0.42)
Benz(b)fluoranthene	ug/Kg	21	-	-	0.23 J	-	18	-	-	ND (0.42)
Benz(g,h,i)perylene	ug/Kg	29000	-	-	ND (0.76)	-	4.3	-	-	ND (0.42)
Benz(k)fluoranthene	ug/Kg	210	-	-	ND (0.76)	-	ND (3.3)	-	-	ND (0.42)
Carbazole	ug/Kg	860	13.6	-	-	-	-	-	-	ND (0.42)
Chrysene	ug/Kg	2100	-	-	0.17 J	-	11	-	-	ND (0.42)

Table 1
Soil Samples from F. A. Requarth Company Property
Dayton, Ohio

Sample Location:	B-SA26	B-SA26	B-SA26	B-SA26	HD-3	MW-6-03	MW-6-03	MW-6-03	MW-7-03	MW-7-03	MW-7-03
Sample ID:	B-SA26 S-2	B-SA26 S-2_1	B-SA26 S-4	B-SA26 S-4_1	HD-3-1-SOIL	SB-12638-011303-JC-152	SB-12638-011303-JC-153	SB-12638-011303-JC-154	SB-12638-011503-JC-155	SB-12638-011503-JC-155	SB-12638-011503-JC-156
Sample Date:	6/10/1996	6/10/1996	6/10/1996	6/10/1996	5/6/1988	1/13/2003	1/13/2003	1/13/2003	1/15/2003	1/15/2003	1/15/2003
Sample Depth:	3-5 ft BGS	3-5 ft BGS	7-9 ft BGS	7-9 ft BGS	24.5-26.5 ft BGS	0-2 ft BGS	8-10 ft BGS	18-20 ft BGS	0-2 ft BGS	8-10 ft BGS	

Parameters	Units												
Dibenz(a,h)anthracene	ug/Kg	2.1	13.9843680000991	-	ND (0.76)	-	2 J	-	-	-	ND (0.42)	-	
Dibenzofuran	ug/Kg	3100	60	-	ND (0.76)	-	0.84 J	-	-	-	ND (0.42)	-	
Di-n-butylphthalate	ug/Kg	62000	-	-	ND (0.76)	-	0.3 JB	-	-	-	ND (0.42)	-	
Di-n-octyl phthalate	ug/Kg	25000	-	-	0.26 J	-	1.3 J	-	-	-	ND (0.42)	-	
Fluoranthene	ug/Kg	22000	-	-	0.3 J	-	23	-	-	-	ND (0.42)	-	
Fluorene	ug/Kg	26000	-	-	ND (0.76)	-	1.6 J	-	-	-	ND (0.42)	-	
Indeno(1,2,3-cd)pyrene	ug/Kg	21	-	-	ND (0.76)	-	3.9	-	-	-	ND (0.42)	-	
Naphthalene	ug/Kg	190	292	57.9	ND (0.76)	-	0.96 J	-	-	-	ND (0.42)	-	
Phenanthrene	ug/Kg	29000	-	-	0.37 J	-	13	-	-	-	ND (0.42)	-	
Pyrene	ug/Kg	29000	-	-	0.32 J	-	20	-	-	-	ND (0.42)	-	
Metals	mg/Kg	410	5.424	-	-	-	-	-	1.3 J	0.40 J	1.2 J	0.64 J	5.3 J
Antimony	mg/Kg	16	29.2	-	-	-	-	-	9.2	7.3	6.9	7.4	9.8
Arsenic	mg/Kg	67000	1648	-	-	-	-	-	64.0 J	87.9 J	127 J	95.3 J	111 J
Barium	mg/Kg	1900	63.216	-	-	-	-	-	0.36 J	ND (0.64) U	ND (0.63) U	0.53 J	1.1
Beryllium	mg/Kg	450	7.52	-	-	-	-	-	0.30 J	0.093 J	0.17 J	0.23 J	0.39 J
Cadmium	mg/Kg	2500	-	-	-	-	-	-	9.2 J	14.5 J	6.4 J	6.5 J	7.8 J
Chromium Total	mg/Kg	13000	659.92	-	-	-	-	-	4.2 J	5.6 J	3.0 J	2.5 J	4.8 J
Cobalt	mg/Kg	41000	915.2	-	-	-	-	-	35.6 J	23.0 J	64.2 J	46.9 J	203 J
Copper	mg/Kg	12000	80	-	-	-	-	-	ND (0.84)	ND (0.64)	ND (0.63)	0.48 J	5.1
Cyanide (total)	mg/Kg	750	2700.6	-	-	-	-	-	50.5 J	6.8 J	16.8 J	68.8 J	159 J
Lead	mg/Kg	19000	1147.52	-	-	-	-	-	342 J	360 J	387 J	215 J	333 J
Manganese	mg/Kg	13.6492616286838	-	1.08	-	-	-	-	0.47	0.031 J	0.027 J	1.5 ^c	0.75
Mercury	mg/Kg	20000	130.4	-	-	-	-	-	12.0	12.4	6.6	8.6	10.9
Nickel	mg/Kg	5100	20	-	-	-	-	-	ND (0.84)	ND (0.64)	ND (0.63)	ND (0.60)	0.59 J
Selenium	mg/Kg	5100	72	-	-	-	-	-	0.55 J	ND (1.3)	ND (1.3)	0.82 J	2.3
Silver	mg/Kg	68	2.848	-	-	-	-	-	1.3 J	ND (1.3)	0.80 J	0.83 J	0.82 J
Thallium	mg/Kg	7200	5201.04	-	-	-	-	-	13.4	16.7	11.1	11.7	14.3
Vanadium	mg/Kg	310000	13684	-	-	-	-	-	81.3	45.8	32.2	88.4	190
Petroleum Products	mg/Kg	-	-	1300	-	9020	-	-	-	-	-	-	-
Total Recoverable Petroleum Hydrocarbons	mg/Kg	-	-	-	-	-	-	-	59.4	78.5	78.8	83.7	81.0
General Chemistry	%	-	-	-	-	-	-	-	-	-	-	-	-
Total Solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Site Specific Industrial Direct Contact (CRL of E-5 or HQ of 1)

b Site Specific Leaching to Groundwater (DAF 20)

c Site Specific Soil Volatilization to Indoor Air

Table 1
Soil Samples from F. A. Requarth Company Property
Dayton, Ohio

Sample Location:**Sample ID:****Sample Date:****Sample Depth:**

MW-7-03	MW-11-03	MW-11-03
SB-12638-011503-JC-157	S-12638-011803-JC-167	S-12638-011803-JC-168
1/15/2003	1/18/2003	1/18/2003
20-22 ft BGS	0-2 ft BGS	6-8 ft BGS

Parameters Units**Volatiles**

		a	b	c	MW-7-03	MW-11-03	MW-11-03
1,1-Dichloroethene	ug/Kg	410	2.8	2.91	ND (0.041)	0.00051 J	0.00089 J
2-Butanone (Methyl Ethyl Ketone)	ug/Kg	27000	8800	463	ND (0.016)	ND (0.017) UJ	0.0023 J
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/Kg	-	-	-	ND (0.016)	ND (0.017) UJ	ND (0.024)
Acetone	ug/Kg	6000	1480	-	ND (0.016) U	ND (0.017) UJ	ND (0.024) U
Carbon disulfide	ug/Kg	1200	1480	7.66	ND (0.0041)	ND (0.0042) UJ	ND (0.0061)
cis-1,2-Dichloroethene	ug/Kg	150	28	-	ND (0.002)	ND (0.0021) UJ	ND (0.003)
Cyclohexane	ug/Kg	32000	-	-	ND (0.0081)	ND (0.0085) UJ	ND (0.012)
Isopropylbenzene	ug/Kg	2000	-	-	ND (0.0041)	ND (0.0042) UJ	ND (0.0161)
Methyl acetate	ug/Kg	92000	-	-	ND (0.0081)	ND (0.0085) UJ	ND (0.012)
Methyl cyclohexane	ug/Kg	8700	-	-	ND (0.0081)	ND (0.0085) UJ	ND (0.012)
Methylene chloride	ug/Kg	210	2	2.35	ND (0.0041)	0.0014 J	ND (0.0061)
Tetrachloroethene	ug/Kg	34	2	0.399	0.00072 J	ND (0.0042) UJ	ND (0.0061)
Toluene	ug/Kg	2200	400	53.5	0.00039 J	0.00047 J	ND (0.0061)
Trichloroethene	ug/Kg	1.2	2	1.32	ND (0.0041)	ND (0.0042) UJ	ND (0.0061)
Xylene (total)	ug/Kg	900	4000	29.7	ND (0.0081)	ND (0.0085) UJ	ND (0.012)

Volatiles - BTEX

Toluene	ug/Kg	2200	400	53.5
---------	-------	------	-----	------

PAH

Acenaphthene	ug/Kg	29000	-	-	-	-
Acenaphthylene	ug/Kg	29000	-	-	-	-
Anthracene	ug/Kg	240000	-	-	-	-
Benz(a)anthracene	ug/Kg	21	-	-	-	-
Benz(a)pyrene	ug/Kg	2.1	-	-	-	-
Benz(b)fluoranthene	ug/Kg	21	-	-	-	-
Benz(g,h,i)perylene	ug/Kg	29000	-	-	-	-
Benz(k)fluoranthene	ug/Kg	210	-	-	-	-
Chrysene	ug/Kg	2100	-	-	-	-
Dibenz(a,h)anthracene	ug/Kg	2.1	13.9843680000991	-	-	-
Fluoranthene	ug/Kg	22000	-	-	-	-
Fluorene	ug/Kg	26000	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	21	-	-	-	-
Naphthalene	ug/Kg	190	292	57.9	-	-
Phenanthrene	ug/Kg	29000	-	-	-	-
Pyrene	ug/Kg	29000	-	-	-	-

Semi - Volatiles

2-Methylnaphthalene	ug/Kg	190	292	57.9	ND (0.36)	-	ND (8.6)
Acenaphthene	ug/Kg	29000	-	-	ND (0.36)	-	2.3 J
Acenaphthylene	ug/Kg	29000	-	-	ND (0.36)	-	ND (8.6)
Anthracene	ug/Kg	240000	-	-	ND (0.36)	-	2.9 J
Benz(a)anthracene	ug/Kg	21	-	-	ND (0.36)	-	17
Benz(a)pyrene	ug/Kg	2.1	-	-	ND (0.36)	-	31 *
Benz(b)fluoranthene	ug/Kg	21	-	-	ND (0.36)	-	26 *
Benz(g,h,i)perylene	ug/Kg	29000	-	-	ND (0.36)	-	12
Benz(k)fluoranthene	ug/Kg	210	-	-	ND (0.36)	-	24
Carbazole	ug/Kg	860	13.6	-	ND (0.36)	-	1.7 J
Chrysene	ug/Kg	2100	-	-	ND (0.36)	-	13

Table 1
Soil Samples from F. A. Requarth Company Property
Dayton, Ohio

Sample Location:**Sample ID:****Sample Date:****Sample Depth:**

MW-7-03	MW-11-03	MW-11-03
SB-12638-011503-JC-157	S-12638-011803-JC-167	S-12638-011803-JC-168
1/15/2003	1/18/2003	1/18/2003
20-22 ft BGS	0-2 ft BGS	6-8 ft BGS

Parameters**Units**

Dibenz(a,h)anthracene	ug/Kg	2.1	13.9843680000991	-	ND (0.36)	-	6.8 J*
Dibenzofuran	ug/Kg	3100	60	-	ND (0.36)	-	0.57 J
Di-n-butylphthalate	ug/Kg	62000	-	-	ND (0.36)	-	ND (8.6)
Di-n-octyl phthalate	ug/Kg	25000	-	-	ND (0.36)	-	ND (8.6)
Fluoranthene	ug/Kg	22000	-	-	ND (0.36)	-	11
Fluorene	ug/Kg	26000	-	-	ND (0.36)	-	0.94 J
Indeno(1,2,3-cd)pyrene	ug/Kg	21	-	-	ND (0.36)	-	16
Naphthalene	ug/Kg	190	292	57.9	ND (0.36)	-	0.48 J
Phenanthrene	ug/Kg	29000	-	-	ND (0.36)	-	6.7 J
Pyrene	ug/Kg	29000	-	-	ND (0.36)	-	13

Metals

Antimony	mg/Kg	410	5.424	-	ND (6.6)	ND (6.7)	0.64 J
Arsenic	mg/Kg	16	29.2	-	3.5	6.5	7.5
Barium	mg/Kg	67000	1648	-	76.5 J	55.8 J	87.0 J
Beryllium	mg/Kg	1900	63.216	-	ND (0.55)	0.33 J	0.33 J
Cadmium	mg/Kg	450	7.52	-	0.12 J	ND (0.56) U	ND (0.65) U
Chromium Total	mg/Kg	2500	-	-	3.7 J	7.1 J	7.7 J
Cobalt	mg/Kg	13000	659.92	-	1.8 J	3.4 J	5.1 J
Copper	mg/Kg	41000	915.2	-	7.5 J	20.7 J	16.2 J
Cyanide (total)	mg/Kg	12000	80	-	ND (0.55)	ND (0.56)	0.91
Lead	mg/Kg	750	2700.6	-	4.4 J	83.2	50.1
Manganese	mg/Kg	19000	1147.52	-	186 J	293 J	571 J
Mercury	mg/Kg	13.6492616286838	-	1.08	0.069 J	0.93	0.63
Nickel	mg/Kg	20000	130.4	-	3.8 J	8.5 J	10.9 J
Selenium	mg/Kg	5100	20	-	ND (0.55)	ND (0.56)	1.1
Silver	mg/Kg	5100	72	-	0.26 J	ND (1.1) U	ND (1.3) U
Thallium	mg/Kg	68	2.848	-	ND (1.1)	ND (1.1) U	ND (1.4) U
Vanadium	mg/Kg	7200	5201.04	-	6.3	11.9 J	14.8 J
Zinc	mg/Kg	310000	13684	-	14.5	60.3	41.7

Petroleum Products

Total Recoverable Petroleum Hydrocarbons mg/Kg

General Chemistry

Total Solids	%	-	-	91.0	89.4	76.7
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Notes:

U Non-detect at associated value.

J Estimated.

UJ Non-detect at associated value. The associated value is estimated.

a Site Specific Industrial Direct Contact (CRL of E-5 or HQ of 1)

b Site Specific Leaching to Groundwater (DAF 20)

c Site Specific Soil Volatilization to Indoor Air

November 26, 2003

Mr. Michael A. Sullivan
Chief of Business Operations
Dayton Public Schools
4280 North James H. McGee Blvd.
Dayton, OH 45427

Re: Well Sampling Data-Career Academy

Dear Mr. Sullivan:

Enclosed are the results of the water sample taken on May 27, 2003 from the geothermal well at the Dayton Career Academy. This well draws water from the lower aquifer. The testing of this sample has included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals using laboratory analytical methods developed by the United States Environmental Protection Agency (U.S. EPA). The attached Table 1 shows the laboratory results for the chemicals that were detected and the levels at which they were detected.

As part of its review of these data, General Motors compared the results to the following screening criteria developed to assess the potential significance of groundwater concentrations under different types of potential groundwater exposures.

- Drinking water screening criteria represented by Federal and Ohio Maximum Contaminant Levels (MCLs) for drinking water, or in the absence of an MCL, equivalent drinking water levels calculated following methodology developed by USEPA;
- Risk-based criteria derived to evaluate potential exposure to chemicals in groundwater during short-term excavation activities; and
- Risk-based screening levels calculated based on potential inhalation exposure to vapor migrating from groundwater into a commercial building. The indoor air concentrations resulting from the potential migration of vapor from groundwater into a building are estimated using a model recommended by USEPA for screening evaluations.

The screening criteria for each of the constituents detected in the geothermal well are presented on Table 1.

As indicated on Table 1, the only chemical to exceed any of the screening values is trichloroethene, which exceeds the drinking water screening value. The detection of TCE is not consistent with the constituents found in the shallow groundwater at the Former Delphi Harrison Facility and indicates an alternative source may be present.

It is our understanding that water from the geothermal well is used in a closed loop heating/cooling system, and therefore, the drinking water screening criteria are not applicable to assessing potential exposures under current site conditions. In addition, based on our review of the geothermal heating

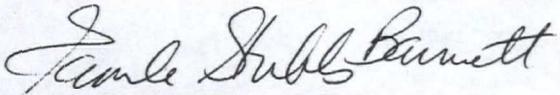
November 26, 2003

Page 2

system, there does not appear to be an opportunity for other types of exposure to constituents in groundwater pumped through this system. Detected concentrations do not exceed screening values for other potential exposure pathways (i.e., direct contact during excavation activities, or volatilization from groundwater to indoor air). Therefore, based on a review of current groundwater use at the Career Academy, current groundwater conditions would not pose an unacceptable risk to potential receptors.

Thank you for allowing General Motors to sample your well. General Motors looks forward to continuing to discuss these results with you. Please call 937-455-2636, if you have any questions.

Sincerely,



Pamela Stubbs Barnett, P.G.
Project Manager
BOW Environmental Solutions, Inc. on behalf of GM

Enclosure

Table 1
Chemicals Detected in Geothermal Well Water
The Dayton Career Academy - Dayton, Ohio

Sample Location:**Geothermal Well****Sample ID:****WG-052703-CAH-153****Sample Date:****5/27/2003****Parameters**

		Drinking Water Units	Site Specific Groundwater Screening Criteria	Direct Contact Screening Criteria	Site Specific Groundwater Vapor Intrusion to Indoor Air Criteria
		a		b	c

Metals

Arsenic	mg/L	0.05	32.6	-	0.0039 J
Barium	mg/L	2	48900	-	0.090 J
Copper	mg/L	1.3	27900	-	0.0026 J
Manganese	mg/L	0.88	97700	-	0.11
Zinc	mg/L	11	209000	-	0.018 J

Volatiles

cis-1,2-Dichloroethene	mg/L	0.07	103	-	0.067
Trichloroethene	mg/L	0.005	28.6	30.7	0.22 ^a

Notes:

J - Estimated.

Confirmation Report - Memory Send

Page : 001
Date & Time: 12-02-2003 15:27
Line 1 : 31235333948
Machine ID : USEPA REG 5 WPTD

Job number : 404
Date : 12-02 15:25
To : 919372856188
Number of pages : 005
Start time : 12-02 15:25
End time : 12-02 15:27
Pages sent : 005
Status : OK

Job number : 404 ***** SEND SUCCESSFUL *****

**Waste Pesticides & Toxics Division
Waste Management Branch
US Environmental Protection Agency
Region 5
77 west Jackson Boulevard
Mailcode: DW-8J
Chicago , Illinois 60604**

FACSIMILE REQUEST



To: PAM HULL
Office/Phone: O E P A
Facsimile Number: 937-285-6188
Verification Number:
From: TRISH POLSTON
Office/Phone: 312-886-8093
Date: 12/2/03 Number of Pages 5

Additional Comments:

**SENT FROM FACSIMILE NUMBER:
312/353-4788**

**Waste Pesticides & Toxics Division
Waste Management Branch
US Environmental Protection Agency
Region 5
77 west Jackson Boulevard
Mailcode: DW-8J
Chicago , Illinois 60604**

FACSIMILE REQUEST



To: PAM HULL

Office/Phone O E P A

Facsimile Number: 937-285-6188

Verification Number: _____

From: TRISH POLSTON

Office/Phone: 312-886-8093

Date: 12/2/03 **Number of Pages** 5

Additional Comments:

**SENT FROM FACSIMILE NUMBER:
312/353-4788**



GM Moraine Assembly
Plant Engineering

2601 W. Stroop Rd.,
Moraine, OH 45439
Fax: 937-455-2901



Fax

To: Jane Polton

From: Pam Stabbs Barnett

Fax:

Phone: (937)

Phone:

Date:

Re:

Pages: (including cover sheet)

Urgent For Review Please Comment Please Reply Please Recycle

Comments:

Here is the letter that is being
faxed to Dayton Public Schools.
Give me a call Monday to set
up conference call.

Thanks!

Jane